G06Q

DATA PROCESSING SYSTEMS OR METHODS, SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES; SYSTEMS OR METHODS SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES, NOT OTHERWISE PROVIDED FOR

Definition statement

This subclass/group covers:

Data processing systems or methods that are specially adapted for managing, promoting or practicing commercial or financial activities.

Groups G06Q 10/00 - G06Q 50/00 and G06Q 99/00 only cover systems or methods that involve significant data processing operations, i.e. data processing operations that need to be carried out by a technological, e.g. computing, system or device.

Group G06Q 90/00 covers systems or methods not involving significant data processing, when both of the following conditions are fulfilled:

- systems or methods are specially adapted for the purposes covered by groups G06Q 10/00 – G06Q 50/00; and

- systems or methods cannot be classified elsewhere in the CPC.

Relationship between large subject matter areas

Classification in this subclass is quite difficult, as the question whether a document qualifies for this place might rest to some extent on the intended use rather than on any "hardware"/technical features.

Further, documents here are often directed at complex systems where the interactions and the overall effect might be decisive, where no single technical, tangible feature will be a pointer to a particular group.

For example, information (e.g., a set of figures) may be displayed for the purpose of education or advertising (G09B vs. G06Q).

As another example, an application describing technical details particular to a resonant tag and its mode of operation or production that merely mentions that the tag can be used in automatic stock management (G06Q 10/08, G06Q 10/087) will probably not be classified here.

Special rules of classification within this subclass

When classifying in groups G06Q 10/00 – G06Q 40/00, systems or methods

that are specially adapted for a specific business sector must also be classified in group G06Q 50/00, when the special adaptation is determined to be novel and non-obvious. By way of example, a method for billing which involves significant data processing and is specially adapted in a non-obvious way to the electricity-supply sector, should be classified in both G06Q 30/00, G06Q 50/06 (metering of electricity consumption per se is not in G06Q). Such an application should be forwarded to classifiers in G07F 15/003.

In this subclass, the first place priority rule is applied, i.e. at each hierarchical level, classification is made in the first appropriate place.

When different aspects / parts of a document should be classified in different subgroups, more than one symbol is to be allocated.

Attention is drawn to the special rules of classification valid under group G06Q 90/00, reserved for systems or methods not involving significant data processing, and for G06Q 99/00, reserved for new technologies (e.g. q-bits computers for a special business purpose).

Whenever a document does not contain more than general statements / information / notorious features (e.g. automation using a computer), and no particular technical adaptation can be understood/no particular combination of technical features is found or inferred, the document can be classified in one of the main groups, i.e. G06Q 10/00.

In this subclass, Indexing Codes G06Q 220/00 and subdivisions, as well as G06Q 250/00 and subdivisions, are used.

Due to their character of Indexing Codes, they can be used only for additional information and only in association with other symbols of G06Q.

G06Q 10/00

Administration; Management

Definition statement

This subclass/group covers:
Data processing systems or processes specially adapted for administration or management, i.e. either the governing or management of an organisation, enterprise or employees.

The following subjects are therefore covered, the list being non-exhaustive:

- Automation of office environment, e.g. Document production using computers, use of standard clauses, automation of contracts, patent applications or insurance policies.

- Administration of reservations in an enterprise environment, e.g. Tickets, events, travels, hotels, restaurants, flights, as well as coordination of multiple reservations, e.g. Correspondence flights.

- Time management in an enterprise environment, e.g. Managing or monitoring billable hours, working time accounting for employees;

- Workflow/project management in an enterprise environment, e.g. Organising, planning, scheduling, allocation of human or material resources, performance analysis, asset management;

- Optimisation or forecasting in an enterprise environment, e.g. For business or financial purposes, achieved by algorithms based on mathematical or statistical models or theoretical solutions to optimisation problems, e. G. Linear programming, simulation, travelling salesman problem (tsp), stock cutting problem;

- Inventory management in an enterprise environment, e.g. Order filling, procurement, balancing against orders, stock level control, bills of materials.

References relevant to classification in this group

This subclass/group does not cover:

Programme-control systems	G05B 19/00
Arrangements for programmed control, e.g. control unit	G06F 9/00
Data processing specially adapted for complex mathematical operations	G06F 17/10
Data processing specially adapted for text/word processing or form filling	G06F 17/21
Computer-aided design/manufacturing	G06F 17/50
Payment of bills	G06Q 20/102
Billing, shopping or e-commerce per se	G06Q 30/06
Finance per se	G06Q 40/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Security arrangements for protecting computers or computer systems	G06F 21/00

against unauthorised activity	
Time recorders for work	G07C 1/00
Secure communication, e.g. by cryptography	H04L 9/32
Protocols for controlled communication	H04L 29/06
Data processing specially adapted for spreadsheets	G06F 17/246

G06Q 10/02

Reservations, e.g. for tickets, services or events; Check-in; Booking display for reserved space

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised record keeping system for recording allocation of space in advance of use, e.g. airplane, train or concert reservation.

Data processing systems or processes specially adapted for reservations, e.g. for tickets, services or events.

The term "space" is intended to include seating.

Such allocation includes airplane, train, or concert seating, as well as hotel room assignment.

The following subjects are therefore covered, the list being non-exhaustive:

- Administration of reservations in an enterprise environment, e.g. Tickets, events, travels.

- Hotels, restaurants, flights.

- Coordination of multiple reservations, e.g. Correspondence flights.

- Leasing or rental activities involving a reservation.

References relevant to classification in this group

This subclass/group does not cover:

Data processing specially adapted for text/word processing or form filling	G06F 17/21	
Databases & information retrieval	G06F 17/30	
Electronic payments	G06Q 20/00	

Informative references

Attention is drawn to the following places, which may be of interest for search:

Restaurant system not involving advance allocation of a specific space.	G06Q 50/12	
Cryptographic aspects of transportation access system not involving advance allocation of a specific space, e.g. fare collection.	G06Q 240/00	
Visible signalling systems for remote indication of seats occupied using electric or using electromagnetic transmission	G08B 5/22	

G06Q 10/025

Coordination of plural reservations, e.g. plural trip segments, transportation combined with accommodation

Definition statement

This subclass/group covers:

Subject matter wherein the processing system coordinates multiple distinct reservations for a single itinerary.

The term "multiple distinct reservations" is not intended to include a plurality of similar reservations, e.g. reservations for a plurality of seats.

G06Q 10/04

Forecasting or optimisation, e.g. linear programming, "travelling salesman problem" or cutting stock problem" [N: (data collection specially adapted for marketing, price

determination or demand forecasting G06Q30/02)]

Definition statement

This subclass/group covers:
Data processing systems or processes specially adapted for forecasting or optimization.

Optimisation in a specific technical field is usually not found here, and should be searched for in the specific field, e.g. optimization of placement of servers in a data farm, optimization for reducing fuel consumption, etc.

The following subjects are therefore covered, the list being non-exhaustive:

- Forecasting or optimisation, e.g. Linear programming, "travelling salesman problem" or "cutting stock problem".

- Optimisation or forecasting in an enterprise environment, achieved by algorithms based on mathematical or statistical models or theoretical solutions to optimization problems, e.g. Linear programming, simulation, travelling salesman problem (tsp), stock cutting problem.

References relevant to classification in this group

This subclass/group does not cover:

Data processing specially adapted for complex mathematical operations	G06F 17/10
Data processing specially adapted for spreadsheets processing	G06F 17/245
Market research	G06Q 30/02
Electronic finance per se	G06Q 40/00

Special rules of classification within this group

Optimisation in a specific technical field is usually not found here, and should be searched for in the specific field, e.g. : optimisation of placement of servers in a data farm, optimisation for reducing fuel consumption, etc... A document classified here should be forwarded to the relevant technical field of application.

G06Q 10/043

[N: Optimisation of two dimensional placement, e.g. cutting of

clothes or wood]

Definition statement

This subclass/group covers:
Finding the optimal placement of shapes on stock material.

Cutting of paper or sheet metal

Cutting shoes from hides

References relevant to classification in this group

This subclass/group does not cover:

Computer aided design	G06F 17/50
Cutting or splitting sheet glass	C03B 33/02
Methods of drafting or marking-out patterns using computers	A41H 3/007

G06Q 10/047

[N:Optimisation of routes, e.g. "travelling salesman problem"]

Definition statement

This subclass/group covers:
Finding an optimal route under certain constraints, e.g. scheduling aircrafts.

Route finding algorithms in graphs (e.g. A* algorithm).

References relevant to classification in this group

This subclass/group does not cover:

Determining optimum path of e.g. robot arm	B25J 9/1656
Navigation systems for road networks	G01C 21/26

G06Q 10/06

Resources, workflows, human or project management, e.g.

organising, planning, scheduling or allocating time, human or machine resources; Enterprise planning; Organisational models [N: (financial asset management G06Q40/06)]

Definition statement

This subclass/group covers:

Data processing systems or processes specially adapted for Resources, workflows, human or project management, e.g. organising, planning, scheduling or allocating time, human or machine resources; Enterprise planning; Organisational models.

The following subjects are therefore covered, the list being non-exhaustive:

- Automation of planning (production, activities) using computers;

- Time management in an enterprise environment, e.g. Managing or monitoring billable hours, working time accounting for employees;

- Project management in an enterprise environment, e.g. Organising, planning, scheduling, allocation of human or material resources, performance analysis, asset management;

- Planning of maintenance activities

References relevant to classification in this group

This subclass/group does not cover:

Programme for total factory control systems, i.e. centrally controlling a plurality of machines	G05B 19/418
Arrangements for executing specific programmes for compilation or interpretation of high level programme languages	G06F 9/45
Allocation of resources for multiprogramming arrangements, e.g. of the central processing unit (CPU)	G06F 9/50
Computer-aided design	G06F 17/50
Ordering spare parts for maintenance	G06Q 30/06, G06Q 30/0603

G06Q 10/063

[N: Operations research or analysis]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for applying systematic or scientific analysis, evaluation, or other problem solving technique to the operation(s) of an enterprise to understand the operation(s), improve effectiveness, and guide decision making or management; or to the planning, organising, directing or controlling of an enterprise, i.e. a group of one or more people or entities, for the purpose of accomplishing a goal.

This subject matter is applied to problems that concern understanding, conducting, coordinating or optimizing the operations or activities within an enterprise.

The operations and activities of the organisation are business level operations and activities and are not specifically network or computer operations related.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Business models and charts or workflow with no analysis	G06Q 10/067
Analysis of discount or incentive effectiveness	G06Q 30/0211
Analysis of advertisement effectiveness	G06Q 30/0242
Time accounting of employees or customers, i.e. the tabulation of attendance or timed presence of employees or patrons	G06Q 10/1091,G06Q 40/105
Registering, indicating or recording the time of events or elapsed time, e.g. time-recorders for work people	G07C 1/00
Methods and systems that perform data processing using mathematical expressions associated with a physical process or using models that represent the performance of specific processes, systems or devices, e.g. simulators.	G06G 7/48
Arrangements for executing specific	G06F 9/455

software programmes for emulation or simulation	

G06Q 10/0631

[N: Resource planning, allocation or scheduling for a business operation]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for planning or assigning of resources in an optimal or systemic way in order to achieve a business goal, or drawn to the management or planning of a business task or operation.

This group includes planning, allocating, distributing, or scheduling resources among various projects or business units in a business or commercial environment based on analysis of operations of the enterprise.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arranging for the delivery of goods between parties or monitoring the status of delivery	G06Q 10/083
Establishing, maintaining, or updating the enterprise resource of inventory	G06Q 10/087
Medical facility management or usage	G06Q 50/22, G06F 19/00
Data processing system for controlling, monitoring, or managing the sequential operations of a production process, resource allocation, product manufacture, or parts assembly	G05B 19/418
Computer Network resource allocation	G06F 15/173
Data processing method or apparatus for administrating job execution or scheduling multiple tasks based upon priority, resource availability and time	G06F 9/46

constraints in a digital data processing system	

G06Q 10/06311

[N: Scheduling, planning, or task assignment for a person or group]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the scheduling or assigning of tasks to an individual or group, the scheduling or assigning based on analysis of factors such as the needs or requirements of the enterprise, the task and the individual or groups qualifications or availability, schedules of individuals or groups, or the goal of a specific task.

The designation of an individual may be either by name or other designation, e.g. position.

The individual or group may be either internal or external to the organisation, such as a current employee, job candidate or contractor.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Administration or management of the hiring process	G06Q 10/105
Computer display interfaces used to join groups of users to complete tasks and link collaborative sites and displays for calendar or schedule tasks to times or dates	G06F 3/048, G06Q 10/109
Arrangement for planning, organizing, staffing, directing, and controlling a software development project	G06F 9/00

G06Q 10/063112

Skill-based matching of a person or a group to a task

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for optimally matching an individual or group to a job based on factors such as the individuals or groups qualification(s) and the requirement(s) defined by the particular type of work.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Performance analysis of an employee	G06Q 10/06398
Administration or management of the hiring process	G06Q 10/105

G06Q 10/063114

Status monitoring or status determination for a person or group

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the monitoring or tracking of work performed or assigned to an individual or group to provide an indication of work that is in queue to be started, work in-progress or work that is completed.

G06Q 10/063116

Schedule adjustment for a person or group

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for reassessing an established staff task schedule to ensure that the schedule is still valid, and then, optionally rescheduling a task to an available individual or group, in order to improve efficiency, accommodate employees or achieve a business goal or objective.

This area includes subject matter where evaluation of whether or not a change to the initial task schedule is needed, even if no change is claimed or the result of the evaluation is that no change is needed.

This area includes staff driven adjustment or reassignment of a shift or work schedule, such as by way of staff trading or swapping of shifts or other means.

G06Q 10/063118

Staff planning in a project environment

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for scheduling, assigning roles, tasks or responsibilities, or the sequence of tasks executed by a team or a team member with respect to a unified managed undertaking.

For classification herein, this group requires a process, method, system, apparatus or program that is associated with a project, e.g. establishing of goals, deliverables, roles, calendar schedules or considered constraints, such as cost or time.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Resource, i.e. money or equipment, planning in a project environment	G06Q 10/06313
Routing or approving or projects between workforce units or for project management with no research or analysis	G06Q 10/103

G06Q 10/06312

[N: Adjustment or analysis of established resource schedule, e.g. resource or task levelling, or dynamic rescheduling]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for reassessment of the established asset utilization plan or schedule to insure the plan is still optimal or valid and then to optionally reschedule or reassign asset usage in order to improve efficiency, or achieve a business goal or objective, accomplished by techniques such as resource or task leveling or dynamic rescheduling.

This area includes applications where evaluation of whether or not a change

to the initial schedule is needed, even if no change is claimed or the result of the evaluation is that no change is needed.

The reassessment may be based on consideration of factors such as cost, failure or maintenance in order to optimally reschedule or plan resource utilization through workload balancing, leveling or other means.

G06Q 10/06313

[N: Resource planning in a project environment]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for organising or allocating resources, such as time, equipment or money, within a defined scope or constraints in order to meet an objective associated with a unified managed undertaking.

For classification herein, this group requires a process, method, system, apparatus or program that is associated with a project, e.g. establishing of goals, deliverables, roles, calendar schedules or considered constraints, such as cost or time.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Staff planning in a project environment	G06Q 10/063118
Routing or approving or projects between workforce units or for project management with no research and analysis	G06Q 10/103

G06Q 10/06314

[N: Calendaring for a resource]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for a calendar-based means which facilitates time planning associated with business resources, operations, production planning, or other administrative activities.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Computerised record keeping for reservations, check-in, or booking of space in advance	G06Q 10/02
Rescheduling associated with resources	G06Q 10/06312
Arranging for the delivery of goods between parties or monitoring the status of delivery	G06Q 10/08, G06Q 10/083
Calendar based systems for scheduling a person or group to related tasks or meetings	G06Q 10/109, G06Q 10/1093

G06Q 10/06315

[N: Needs-based resource requirements planning or analysis]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the evaluation or determination of resources required by the organisation to satisfy an internal or market-driven need.

Market-driven demand herein includes planning associated with consumer demand that require various resources of a business to meet the consumer order demand, such as supply chain operations involving inventory planning or order planning, which may include planning for anticipated future orders.

Market research or market demand prediction which does not also involve resource planning or resource adjustment is classified elsewhere.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Market data gathering, analysis, or modeling	G06Q 30/0201
Market prediction or demand forecasting	G06Q 30/0202

G06Q 10/06316

[N: Sequencing of tasks or work]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised means for planning or governing the order of steps for completing a task, for planning or governing the order of plural tasks performed by the resources of a business, or for using problem solving techniques such as network analysis, e.g. shortest path, minimum spanning trees, maximum flow problems, precedence graphs, job dispatch prioritization, or minimum cost flow problems, to determine the most optimal sequence or ordering of entities or resources.

Classified herein are systems that control workflow, automated systems that process tasks or that display instructions directing the order of task execution, or a template with a series of required fields for execution of the task.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Routing or approval of work between workforce units	G06Q 10/103
Determining routing of goods in an existing delivery system or to identify the appropriate delivery route	G06Q 10/08355
Business modeling with minimal research or analysis	G06Q 10/067
Database or file accessing	G06F 17/30
Inter-processor communication or multi-computer data transferring using an interconnection network, e.g. matrix, shuffle, pyramid, star, snowflake	G06F 15/173
Help presentation to a user	G06F 17/243
Task management and for means or steps for administering processor or job execution in a digital processing	G06F 9/44

environment	

G06Q 10/0633

[N: Workflow analysis]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for evaluation of a model or other abstract representation of real work in order to understand or optimise a work process.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Business models or charts with no operational analysis	G06Q 10/067
Routing or approval of work between workforce units	G06Q 10/103

G06Q 10/0635

[N: Risk analysis]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for applying techniques to identify and analyze or assess factors that may adversely affect the success of a business undertaking or the achievement of a business goal.

This subject matter includes identifying preventive measures to reduce the probability of these factors occurring or identifying countermeasures to successfully minimize possible negative effects on a business or an entity.

Evaluation of risk factors with respect to credit, loan or other financial matters is not classified herein.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Fraud or risk level assessment in transaction processing	G06Q 20/4016
Credit or other financial risk	G06Q 40/025
Risk associated with insurance	G06Q 40/08

G06Q 10/0637

[N: Strategic management or analysis]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for providing overall direction to a business by (1) developing a business mission, vision or objective; (2) formulating a planned course of action based on a business mission, vision or objective; or (3) evaluating or reevaluating whether the developed mission, vision or objective or planned course of action was effective, produced a desired outcome or needs to be modified.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Business models or charts with no operational analysis	G06Q 10/067
Routing or approval of work between workforce units	G06Q 10/103

G06Q 10/06375

[N: Prediction of business process outcome or impact based on a proposed change]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for forecasting how a business will perform under potential scenarios including identifying an outcome or impact of a proposed change or estimating what changes are needed to accomplish desired goal(s) or outcome(s), including techniques such as change impact analysis or return on investment.

This group includes subject matter where analysis occurs, even when none of current or proposed plans, processes or practices are implemented in the operation of an enterprise.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Calculating price, cost, or charges	G06Q 30/0283

G06Q 10/0639

[N: Performance analysis]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement which evaluates the efficiency, productivity or performance of an employee or other entity employed by an enterprise or an organisational operation.

The efficiency, productivity or job performance of the employee or other entity occurs within the enterprise and thus explicitly or implicitly impacts the operations of that enterprise.

The evaluations may include recommendations for performance improvement.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Administration or management of the hiring process	G06Q 10/105
Business certification or verification of status of an entity's qualifications of a business requirement	G06Q 30/18
Ranking or collecting reviews regarding business entities	G06Q 30/0282
Data processing systems that analyze statistical information based on employee performance or manufacturing area	G06G 7/52
Methods and systems that measure	G06G 7/48

the performance of a system or device through modeling	

G06Q 10/06393

[N: Score-carding, benchmarking or key performance indicator [KPI] analysis]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for (1) comparing business performance with a known standard of excellence, or (2) analysis of an operational activity of a company, in order to establish a performance standard or to determine if actual performance is aligned with the goals or objectives of the business.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Market research used in score-carding, benchmarking or key performance indicator analysis	G06Q 30/0201

G06Q 10/06395

[N: Quality analysis or management]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for applying systematic and scientific evaluation related to standards set or required for various business practices, operations, processes, incoming materials, products or services.

This subject matter may include analysis of test data from suppliers, internal incoming inspection, in-line test, final test data or other data associated with analysis of business operation standards, and may also include determination of corrective actions.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Market data gathering or analysis, for quality analysis of post product sale or service data, such as post sale product and component performance data, field failures, product or service data collected from customer	G06Q 30/0201
Ranking or collecting reviews regarding business entities or the products or the services of business entities	G06Q 30/0282
Gathering data, usually on a manufacturing or assembly line, to determine the quality of a product	G06F 11/00
Neural network for constraint optimization problem solving	G06F 15/18

G06Q 10/06398

[N: Performance of employee with respect to a job function]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for evaluating individual or group performance with respect to an assigned job or task.

This area includes applications that include evaluations such as end of year reviews.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Record keeping with respect to employees	G06Q 10/105
Data processing system limited to determining time or attendance	G06Q 10/1091, G06Q 40/105

G06Q 10/067

[N: Business modelling]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for simulation of a business operation or a function; or a document.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Application including analysis of business processes or operations research	G06Q 10/063
Means or steps for modeling, but without means for business data distribution, processing or usage in a business environment	G06G 7/48
Modeling or rules templates with learning, but without means for business data distribution, processing or usage in a business environment	G06F 15/18
Business model or rules template generation, filing, or manipulation without means for business data distribution, processing or usage in a business environment	G06F 17/30
Form generation and manipulation related to generation of model files or templates	G06F 17/247
On-screen workspace or object GUI interaction in generation and manipulation of business model file data or rules template data, without means for business data distribution, processing or usage in a business environment	G06F 3/048

G06Q 10/08

Logistics, e.g. warehousing, loading, distribution or shipping;

Inventory or stock management, e.g. order filling, procurement or balancing against orders

Definition statement

This subclass/group covers:

Data processing systems or processes specially adapted for logistics, e.g. warehousing, loading, distribution or shipping (involving movement of material/products between different locations).

The following subjects are therefore covered, the list being non-exhaustive:

- Planning and scheduling the flow of material/products between different locations;

- Track & trace systems for parcels;

- Control of supply chains, e.g. Tracing of environmental conditions during transport;

- Just-in-time delivery

- Loading and unloading trucks.

Inventory or stock management, e.g. order filling, procurement or balancing against orders are classified more specifically in G06Q 10/087

References relevant to classification in this group

This subclass/group does not cover:

Postal sorting	B07C
Containers	B65G
Locks and alarms	E05, G08B
RFIDs, Bar Codes, Marking technologies per se	G06K 19/00
Inventory monitoring in POS payment systems	G06Q 20/203

Informative references

Attention is drawn to the following places, which may be of interest for search:

Geographic Information System	G06F 17/30

Access Control	G07C 1/00
Navigation	G08G
Sensors (e.g. sensing environmental conditions)	G01

G06Q 10/083

[N: Shipping]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the delivery of goods or items between parties, or for the monitoring of the status of that delivery.

G06Q 10/0831

[N: Overseas transactions]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for managing the delivery of goods that are transported over international waters or across international borders.

G06Q 10/0832

Special goods or special handling procedures

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the handling of a shipment of goods that requires particular preparation measures or transport specifications.

This group includes such special goods or handling procedures, such as the shipping of goods in refrigerated vehicles or the special packing or transport measures for handling hazardous or delicate materials.

G06Q 10/0833

[N: Tracking]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for systems allowing various parties in a delivery transaction to determine the location of goods during their preparation for delivery or during transport between destinations.

G06Q 10/0834

[N: Choice of carriers]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for determining which carrier a particular shipper or supplier should utilise for a specific delivery transaction.

G06Q 10/08345

[N: Pricing]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement to assist shippers, suppliers or recipients of goods in managing the determination of an appropriate or established price for a delivery transaction.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Price LookUp processing in POS payment systems	G06Q 20/201

G06Q 10/0835

[N: Relationships between shipper or supplier and carrier]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement directed at handling the

transactions between a shipper or supplier of goods and the carrier who will deliver the goods.

G06Q 10/08355

[N: Routing methods]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for determining optimum routing of certain goods in an existing delivery system or to identify an appropriate route for delivery of specified goods.

The routing method is often directed at cost savings or delivery time minimization.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Travelling salesman	G06Q 10/047
Guiding/routing a vehicle	G01C 21/26

G06Q 10/0836

[N: Central recipient pick-ups]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for managing the handling of delivery of goods to allow recipients to pick up the goods at a centralised location.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Means for safe-keeping of property, left temporarily, e.g. lockable containers	G07F 7/12

G06Q 10/0837

[N: Return transactions]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for the sending of received goods back to a supplier or manufacturer.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Systems for rewarding return of articles	G07F 7/06

G06Q 10/0838

[N: Historical data]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for the maintenance or tracking of information collected in shipping transactions, such as customer data, established routes, load history and cost information.

G06Q 10/087

[N: Inventory or stock management, e.g. order filling, procurement, balancing against orders]

Definition statement

This subclass/group covers:
Data processing systems or processes specially adapted for Inventory or stock management, e.g. order filling, procurement or balancing against orders

The following subjects are therefore covered, the list being non-exhaustive:

- Inventory management in an enterprise environment,

- Order filling from stock.

- Maintaining a register of the position of all assets in an enclosure (building, warehouse, parking lot).

- Stock level control.

- Management of storage life of perishable/hazardous products.

- Establishing, maintaining, or updating a record of a store of goods.

References relevant to classification in this group

This subclass/group does not cover:

Logistics involving the transportation of products/material	G06Q 10/08
Intelligent shelves, special purpose cabinets	B65G 1/137

G06Q 10/0875

[N: Itemisation of parts, supplies, or services, e.g. bill of materials]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for generating an itemised listing of the components needed either totally or based on specific tasks in an organisation.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Bill of materials system combined with a step of or structure for product manufacture	G06F 17/00
Automated inventory management organisation combined with a cash register or sales terminal	G06Q 20/203
Data processing in buying-selling transactions	G06Q 30/06

G06Q 10/10

Office automation, e.g. computer aided management of electronic mail or groupware (electronic mail network systems H04L12/58; electronic mail protocols H04L29/06); Time management, e.g. calendars, reminders, meetings or time accounting [N: organizing, planning, scheduling or allocating time G06Q10/06]

Definition statement

This subclass/group covers:

Office automation; human resources in the sense of employee administration, contracts, reporting, job applications, etc.; and office software especially for collaborative work (groupware) for instance for the electronic equivalent of an office paper flow (drafting, approval, archival).

The following subjects are therefore covered, the list being non-exhaustive:

- Automation of office environment, e.g. Document production/workflow using computers or use of standard clauses.

- Automation of contracts, patent applications or insurance policies.

- Processing of claims for an insurance.

- Collaborative work.

- Version control of documents.

- Human resources.

G06Q 10/101

[N: Collaborative creation of products or services]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for initial conceptual development, through cooperation between plural parties, e.g. brainstorming, idea development, of a commodity or of work that can be performed for another.

G06Q 10/103

[N: Workflow collaboration or project management]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the routing or approving of projects between workforce units or for organising and managing of resources, e.g. people, in such a way that a planned undertaking is completed within defined scope, quality, time, and cost constraints.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Computerised arrangement for the systematic and scientific analysis and evaluation of the operation of an organisation or the programmed scheduling of an organisation	G06Q 10/063

G06Q 10/105

[N: Human resources]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for keeping of records, e.g. benefits, of the departments or employees of an organisation or hiring of employees.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Employee performance review or evaluation	G06Q 10/06398

G06Q 10/1053

[N: Employment or hiring]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for engaging the services of a person or persons for wages or other payment either directly or through a third party.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Resource needs or requirements for a particular position	G06Q 10/0631

G06Q 10/1057

[N: Benefits package]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the maintenance, regulation or the monitoring of non-monetary employment compensation provided to employees by an organisation, e.g. health insurance, leave or retirement.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Retirement fund portfolio management	G06Q 40/06,G06Q 40/09
Insurance co-pay determination	G06Q 50/22

G06Q 10/107

[N: Computer aided management of electronic mail (electronic mail network systems H04L12/58; electronic mail protocols H04L29/06)]

Definition statement

This subclass/group covers:

Document workflows and groupware based upon e-mail, computer aided management of electronic mail (essentially on the client side).

The following subjects are therefore covered, the list being non-exhaustive:

- Automation of office environment, e.g. Document workflow using message-based systems (e-mails).

- Archiving of e-mails for administrative purpose.

- Automation of e-mail processing (essentially on the client side), messaging, spam filtering, actions performed before receiving or after sending e-mails.

G06Q 10/109

[N: Time management, e.g. calendars, reminders, meetings, time accounting (organizing, planning, scheduling or allocating time G06Q10/06)]

Definition statement

This subclass/group covers:
Management of appointments, e.g. calendars, reminders, meetings or time accounting.

The following subjects are therefore covered, the list being non-exhaustive:

- Appointment management, e.g. indicating available time slot, computer assistants, reminders, meetings.

- Electronic business cards.

- GUI particularly adapted for processing calendars and appointments.

References relevant to classification in this group

This subclass/group does not cover:

PDAs, electronic PIMs	G06F 15/02
Organising, planning, scheduling or allocating time (for production of items)	G06Q 10/06
Portable phones	H04W

G06Q 10/1091

[N: Recording time for administrative purposes]

Definition statement

This subclass/group covers:
Subject matter for analysis or allocation of time worked by an individual.

G06Q 10/1093

[N: Calendar-based scheduling for a person or group]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the creation or maintenance of a list or schedule of planned events or activities giving dates and details which is used by an individual or group for planning or assigning a time and optionally a place for meetings, appointments or tasks.

Calendar-based systems that allow the client or the business entity to schedule appointments in a place of business are classified herein.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Computerised record keeping for reservations, check-in, or booking of space in advance	G06Q 10/02
Staff rescheduling	G06Q 10/063116

G06Q 10/1095

[N: Meeting or appointment]

Informative references

This subclass/group covers:

PDAs, electronic hand held PIMs for time management, e.g. calendars, diaries	G06F 15/02,G06F 15/0266
Computerised record keeping for reservations, check-in, or booking of space in advance	G06Q 10/02
Scheduling /planning in association with a business operation	G06Q 10/0631

G06Q 10/1097

[N: Task assignment]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised calendar-based operation used by an individual or group for determining the availability of a person or group for a task, or for assigning a time or a place for a task.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Scheduling /planning in association with a business operation	G06Q 10/0631

G06Q 10/20

[N: Product repair or maintenance administration]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the development or the utilization of a system for notifying the customer of servicing which is due on his product or to the tracking or monitoring of services performed on a product, e.g. car maintenance.

References relevant to classification in this group

This subclass/group does not cover:

Maintenance indicators in cars	G07C 5/00

G06Q 10/30

[N: Product recycling or disposal administration]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the creation or maintenance of a system for taking used or waste commodities and either (1)

treating or processing them so as to make them suitable for reuse, or (2) getting rid of them.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Systems for rewarding return of articles	G07F 7/0

G06Q 20/00

Payment architectures, schemes or protocols (apparatus for performing or posting payment transactions G07F7/08, G07F19/00; electronic cash registers G07G1/12)

Definition statement

This subclass/group covers:

Data processing in relation to payment(s), protocols for payments, systems involving a payment protocol or required for its implementation.

Protocols or schemes which include procedures whereby a payment is made between a merchant, a bank, a user and sometimes a third party; the procedure usually includes verification and authentication of all parties involved.

References relevant to classification in this group

This subclass/group does not cover:

Use of payment in a standard and obvious manner within other applications to which the inventive concept applies	The CPC group of the field of application for which payment is applied.
Apparatus for performing or posting payment transactions	G07F 7/08 - G07F 7/12, G07F 19/00
Electronic cash registers	G07G 1/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Computer not specific to payments.	G06F 1/00 -G06F 3/00

Data processing for the specific activities for which the payment is required but not relating to the payment itself	G06Q 10/00 G06Q 99/00
Apparatus used for payments	G07F 7/00

Special rules of classification within this group

First place priority rule (FPPR) for G06Q 10/00 through G06Q 40/00, except for G06Q 20/00, where the best fit priority rule applies.

Multiple classification may be applied within G06Q 20/00 and any further classification group(s) of G06Q.

G06Q 20/02

involving a neutral third party, e.g. certification authority, notary or trusted third party [TTP]

Definition statement

This subclass/group covers:

The involvement of a neutral third party is an essential aspect of the payment protocol and it serves to coordinate the payment protocol.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Security arrangements for protecting computers or computer systems against unauthorised activity	G06F 21/00
Insuring higher security of transaction involving key management	G06Q 20/3829
Arrangements for secure communication	H04L 9/00

Special rules of classification within this group

The best fit priority rule applies: the most pertinent subgroup should be used for classification. Head group applies only if no subgroup applies. In case the

third party manages the encryption keys, both the present class and G06Q 20/3829 should be allocated.

G06Q 20/023

[N: characterised in that the neutral party is a clearing house]

Definition statement

This subclass/group covers:

Automated Clearing House (ACH) is accepted as a trusted authority for the bundling of payments between banks or payment authorities.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Finance	G06Q 40/02

Special rules of classification within this group

If the Administration and Accounting of the Banking is managed by the Automated Clearing House, G06Q 40/02. If the Payment is managed, G06Q 20/023.

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

In this group, the following terms or expressions are used with the meaning indicated:

ACH (Automated Clearing House)	A system, e.g. of the U.S. Federal Reserve Bank, that provides electronic funds transfer (EFT) between banks. It is used for all kinds of fund transfer transactions, including direct deposit of paychecks and monthly debits for routine payments to vendors. The ACH is separate and distinct from the various bank card networks that process credit card transactions. ACH operations are done in a batch mode, which can take up to 72 hours before the money is actually transmitted. A return notification is sent if there are

	insufficient funds in the account.

G06Q 20/027

[N: involving a payment switch or gateway]

Definition statement

This subclass/group covers:

Subject matter wherein the transfer of funds or payment due includes a communication node connecting two different financial networks.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Information security in computers or digital processing system	G06F 21/00
Protocols for Interconnection of Networks	H04L 29/00

G06Q 20/04

Payment circuits

Definition statement

This subclass/group covers:

Payment done using the rules of a standard public payment environment. This group and its subdivision cover by what means the payment is realised.

This group also covers details of protocols of payment such as the use of cheques or electronic tickets, or specific solutions in relation to micro-payments.

References relevant to classification in this group

This subclass/group does not cover:

The group does not cover:

Micropayments	G06Q 20/29.

G06Q 20/042

[N: characterised in that the payment protocol involves at least one cheque]

Definition statement

This subclass/group covers:
Any payment scheme which requires a payment cheque.

Special rules of classification within this group

If it is clear that the cheque is used or processed only in electronic form, G06Q 20/0425 should get priority, best fit priority rule.

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

In this group, the following terms or expressions are used with the meaning indicated:

Cheque	A cheque (or check in US English) is a document or instrument (usually a piece of paper) that orders a payment of money from a bank account. The person writing the cheque, the drawer, usually has a current account (British and HK), or checking account (US), or chequing account (CAN) where the money was previously deposited. The drawer writes the various details including the money amount, date, and a payee on the cheque, and signs it, ordering their bank, known as the drawee, to pay that person or company the amount of money stated.

G06Q 20/0425

[N : the cheque being electronic only]

Definition statement

This subclass/group covers:

Payment schemes in which (at least for a part of the procedure) the cheque is in electronic form, e.g. as an image.

Special rules of classification within this group

If the cheque is used or processed in paper (even if an image is only used in a part of the procedure), G06Q 20/042 should get priority, best fit priority rule.

G06Q 20/045

[N: characterised in that the payment protocol involves at least one ticket]

Definition statement

This subclass/group covers:
Payment schemes in which a ticket is defining rights such as access rights or payment rights e.g. payment done.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Dispensing of tickets in paper form	G07F 17/42

G06Q 20/0453

[N: the ticket being an electronic receipt]

Definition statement

This subclass/group covers:
Payments using an electronic form of a proof of payment.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Receipt generation and printing in a POS environment	G07G 5/00

G06Q 20/0457

[N: characterised in that the ticket is sent electronically]

Definition statement

This subclass/group covers:

Payments by means of tickets sent in an electronic form.

References relevant to classification in this group

This subclass/group does not cover:

Dispensing of the physical ticket per se	G07F 17/42
Electronic wallets containing money units or electronic purses	G06Q 20/36

G06Q 20/06

Private payment circuits, e.g. involving electronic currency used only among participants of a common payment scheme

Definition statement

This subclass/group covers:

Payment protocols for executing payments using rules defined, agreed and shared by all members within a private group of participants.

G06Q 20/065

[N: using e-cash]

Definition statement

This subclass/group covers:

Payments by means of electronic cash.

References relevant to classification in this group

This subclass/group does not cover:

Cards having a counter for counting units for a specific purpose, e.g. copier cards	G06Q 20/34

Special rules of classification within this group

Best fit priority rule

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

In this group, the following terms or expressions are used with the meaning indicated:

E-cash	Discrete units or amounts of electronic currency which have a value by themselves and can be exchanged on a per-unit basis.

G06Q 20/0652

[N: e-cash with decreasing value according to a parameter, e.g. time]

Definition statement

This subclass/group covers:
Payments using e-cash of which the value decreases or changes according to a parameter, e.g. time.

G06Q 20/0655

[N: e-cash managed centrally]

Definition statement

This subclass/group covers:
Payment system where all transactions using e-cash are centrally monitored and checked.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Keeping log of transaction for guaranteeing non-repudiation of a transaction, e.g. notarization	G06Q 20/389

G06Q 20/0658

[N: e-cash managed locally]

Definition statement

This subclass/group covers:
Payment system where the bookkeeping of the e-cash is managed locally.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Using electronic wallets or electronic money safes	G06Q 20/36
Storing of e-cash on a card	G07F 7/08

G06Q 20/08

Payment architectures

Definition statement

This subclass/group covers:
Payment protocols and methods of data processing specific to the type of environment. Details of infrastructures used in the backbone of the payment procedure.

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

In this group, the following terms or expressions are used with the meaning indicated:

Architecture	The configuration of systems and devices involved or used for implementing the payment protocol.

G06Q 20/085

[N: involving remote charge determination or related payment systems]

Definition statement

This subclass/group covers:

The determination at a remote vendor site of a payment due or a transfer of funds from a buyer to a remote vendor.

References relevant to classification in this group

This subclass/group does not cover:

Charging or billing for use of a telecommunication network based on a metering of data flow	H04L 12/14

Informative references

Attention is drawn to the following places, which may be of interest for search:

Bill distribution or payment absent cryptography	G06Q 20/102
Payment protocols and concepts for insuring higher security e.g. encryption	G06Q 20/382
Electronic shopping absent encryption	G06Q 30/0601 - G06Q 30/08
Usage or charge determination of a protected distributed data file	G06Q 220/12 G06Q 220/127

G06Q 20/0855

[N: involving a third party]

Definition statement

This subclass/group covers:

Payment schemes in which a third party (neutrality is not mandatory) is essential to the remote charging.

References relevant to classification in this group

This subclass/group does not cover:

If the third party may be considered	G06Q 20/02

trusted or neutral and it is contributing to the inventive nature or the business functionalities of the scheme	

Informative references

Attention is drawn to the following places, which may be of interest for search:

Usage or charge determination of a protected distributed data file involving a third party for collecting or distributing payments	G06Q 220/123

G06Q 20/10

specially adapted for electronic funds transfer [EFT] systems; specially adapted for home banking systems

Definition statement

This subclass/group covers:

The implementation of payment protocols for the explicit user initiated fund transfers from one account to another account such as in home banking systems.

In this group, the term EFT is understood to include credit transactions.

References relevant to classification in this group

This subclass/group does not cover:

Generic groups for electronic payment protocols which by definition always involve some form of electronic fund transfer, which should be classified in one or more of the pertinent groups.	G06Q 20/12 -G06Q 20/425

Special rules of classification within this group

Best fit priority rule

G06Q 20/102

[N: Bill distribution or payments]

Definition statement

This subclass/group covers:

Computerised arrangements for generating notices of payment due, or transferring funds in response thereto.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Remote charge determination or payment system	G06Q 20/085
Bill or invoice establishment and accounting	G06Q 30/04
Subject matter particularly adapted for health insurance claims or payments	G06Q 50/22

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

In this group, the following terms or expressions are used with the meaning indicated:

Bill	In this field, bill means an "invoice", not a "banknote".

G06Q 20/105

[N: involving programming of a portable memory device, e.g. IC cards, "electronic purses"]

Definition statement

This subclass/group covers:

User operated arrangement for programming an object having a value carrying memory, e.g. an ATM card, prior to use, with details of the desired transaction.

Such cards usually include an integrated circuit (IC) element, and are often referred to as "smart cards".

Included herein is a transaction specific card preprogramming arrangement.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Personalisation of IC cards for use	G06Q 20/355
Using electronic wallets or electronic money safes	G06Q 20/36
Cryptographic secure transaction including intelligent token	G06Q 20/367 -G06Q 20/3678
Structural arrangements for semiconductor devices not otherwise provided for	H01L 23/58

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

In this group, the following terms or expressions are used with the meaning indicated:

Electronic purses	Devices containing units of e-cash

G06Q 20/108

[N: Remote banking, e.g. home banking]

Definition statement

This subclass/group covers:

Arrangements for effecting the custody, loan, exchange, or issue of money for the extension of credit or for facilitating the transmission of funds from a computer at a location geographically spaced apart from a banking establishment.

Such a computer may be located in a user's residence or place of business.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Point of sale terminal requiring authorization or authentication	G06Q 20/206
Centrally controlled vending system	G07F 11/002
Record-sensing device in combination with a system that maintains financial accounts, i.e., banking system	G07F 19/00

G06Q 20/1085

[N: involving automatic teller machines [ATMs]]

Definition statement

This subclass/group covers:

Payments protocols which involve an ATM (in particular for EFT and banking payment transactions).

References relevant to classification in this group

This subclass/group does not cover:

Payment settlements involving self-service terminals [SSTs] vending machines, kiosks, or multimedia terminals	G06Q 20/18
Details of Automatic Teller Machines (ATM) as participating in a complete banking system or by themselves	G07F 19/20

G06Q 20/12

specially adapted for electronic shopping systems

Definition statement

This subclass/group covers:

Implementation of payment protocols for electronic shopping.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Ordering features of the electronic shopping procedure, in which the payment details have no technical merit or inventive contribution	G06Q 30/00
Point of Sale terminal (POS) or Electronic Cash Register (ECR)	G07G 1/00

Special rules of classification within this group

First place priority rule (FPPR) for payments aspects (G06Q 20/00) and shopping or ordering (G06Q 30/00) if essential or having technical merit or inventive contribution.

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

In this group, the following terms or expressions are used with the meaning indicated:

Electronic shopping	Electronic shopping from a personal computer device and not requiring a Point of Sale terminal (POS) or Electronic Cash Register (ECR)

G06Q 20/123

[N: Shopping for digital content]

Definition statement

This subclass/group covers:
Payments for data files e.g. films, audio, pictures, software.

References relevant to classification in this group

This subclass/group does not cover:

Payment and shopping for Digital Content in which any form of control	G06Q 20/125

on the data rights management is required	

G06Q 20/1235

[N: with control of digital rights management [DRM]]

Definition statement

This subclass/group covers:

Payment and shopping for Digital Content with Digital Rights Management (DRM), e.g. watermarking, biometrics, identifiers, cryptography, rights, dongles within a business or commercial framework, e.g. buying and selling content; license, contract or agreement management and enforcement; determining funds owed or to be paid for use of content; exchanging funds or other considerations for use of content; identifying and/or preventing illegal or impressible use of content.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Security arrangements for protecting specific internal or peripheral components in which the protection of a component leads to protection of the entire computer; Monitoring users, programs or devices to maintain the integrity of platforms; Authenticating users, programs or devices	G06F 21/00
Security arrangements for protecting distributed programs or content, e.g. vending or licensing of copyright material	G06F 21/10
License management post-sale	G06Q 30/0645
Protecting information, e.g. digital content from access by third parties, e.g. by encryption	H04L 29/06

G06Q 20/127

[N: Shopping or accessing services according to a time-limitation]

Definition statement

This subclass/group covers:

Payments for billed time-usage or access permitted to service or object for a limited defined time, e.g. streaming video.

References relevant to classification in this group

This subclass/group does not cover:

Payments according to the detected use or quantity	G06Q 20/145

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment activated dispensing of liquids such as drinks or in petrol stations	G07F 13/00
Payment activated providing of facilities, such as gas, electricity	G07F 15/00
Charging or billing for use of a telecommunication network based on a metering of data flow	H04L 12/14

G06Q 20/14

specially adapted for billing systems

Definition statement

This subclass/group covers:
Protocols for the payment of bills.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment architectures involving remote charge determination or	G06Q 20/085

related payment systems	
Bill distribution or payments	G06Q 20/102
Accounting and bill establishment	G06Q 30/04

G06Q 20/145

[N: Payments according to the detected use or quantity]

Definition statement

This subclass/group covers:
Dispensed quantity or service provided metered in another way than by time-metering.

References relevant to classification in this group

This subclass/group does not cover:

Shopping or accessing services according to a time-limitation	G06Q 20/127

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment activated dispensing of liquids such as drinks or in petrol stations	G07F 13/02
Payment activated providing of facilities such as gas, electricity	G07F 15/00
Charging or billing for use of a telecommunication network based on a metering of data flow	H04L 12/14

G06Q 20/16

Payments settled via telecommunication systems

Definition statement

This subclass/group covers:

Payment protocols in which payments are settled by the telecommunication provider which serves as payment aggregator.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payments using a wired telephone network to facilitate payment	G06Q 20/305

G06Q 20/18

involving self-service terminals [SSTs] vending machines, kiosks or multimedia terminals

Definition statement

This subclass/group covers:

Payment protocols for payments made from Self-Service Terminals (SSTs) or for services provided by SSTs.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Details of the type of SST should, if essential, also be classified in the group corresponding to the type of device, e.g. for ATMs	G07F 19/00, G06Q 20/1085 G07F 9/00 -G07F 17/00

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

In this group, the following terms or expressions are used with the meaning indicated:

Self Service Terminal (SST)	SST: Self Service Terminal, in particular also ATMs (Automatic Transaction/Teller Machines), which are also used for additional functions

G06Q 20/20

Point-of-sale [POS] network systems [N: (POS per se G07F or G07G)]

Definition statement

This subclass/group covers:

Implementation of payment protocols for payments made by means of a POS or ECR (or Vending machine or Dispenser serving as POS device) within a network.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Aspects specific and essential to POS or ECR devices and terminals	G07G 1/12

Special rules of classification within this group

Data processing of payment transactions by means of such an apparatus or device will be classified in G06Q 20/20. In particular POS network systems are in G06Q 20/20.

Synonyms and Keywords

In patent documents the following abbreviations are often used:

ECR	Electronic Cash Register
POS	Point of Sale

G06Q 20/201

[N: Price look-up processing, e.g. updating]

Definition statement

This subclass/group covers:

Subject matter including a feature of a memory or file arrangement for looking up the price of an item being purchased where an item designator is entered

into the terminal.

Informative references

Attention is drawn to the following places, which may be of interest for search:

PLU tables in use by Electronic Cash Register (ECR) or Point of Sale Terminal (POS)	G07G 1/145

G06Q 20/202

[N: Interconnection or interaction of plural electronic cash registers [ECR] or to host computer, e.g. network details, transfer of information from host to ECR or from ECR to ECR]

Definition statement

This subclass/group covers:

Subject matter wherein two or more spaced apart electronic cash registers (ECR) are connected for cooperation there-between; or a connection to an ECR is connected for cooperation with a host computer spaced apart there-from. The ECRs are most often connected in a network configuration.

References relevant to classification in this group

This subclass/group does not cover:

Features of the POS apparatus per se	G07G 1/12, G07G 1/145

Informative references

Attention is drawn to the following places, which may be of interest for search:

Computer network of general utility	G06F 15/173
Network for electronic funds transfer not claiming an electronic cash register or point of sale terminal	G06Q 20/10
Centrally controlled vending systems	G07F 11/002

G06Q 20/203

[N: Inventory monitoring]

Definition statement

This subclass/group covers:
Inventory monitoring within POS network systems.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Inventory or stock management	G06Q 10/00
Automated inventory management organisation not combined with a cash register or sales terminal	G06Q 10/087
Inventory for vending machines and dispensers	G07F 9/026

G06Q 20/204

[N: comprising interface for record bearing medium or carrier for electronic funds transfer or payment credit]

Definition statement

This subclass/group covers:
Payments by means of POS including an arrangement for reading a customer associated payment effecting data bearing medium or carrier.

Such a data bearing medium is intended to include a credit card, debit card or a value bearing ticket.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Card readers per se	G06K 7/00
Payments characterised by the use of cards	G06Q 20/34
Details of card readers used for	G07F 7/0873

payment purposes	
Cash register with a detail of record sensing control	G07G 1/00

G06Q 20/206

[N: comprising security or user identification provision, e.g. password entry]

Definition statement

This subclass/group covers:

Use of the Point of Sale device is dependent upon the identification of the user, possibly by User ID-card, e.g. waiter-key.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Information security in computers or digital processing system	G06F 21/00
Funds transfer system requiring authorization or authentication	G06Q 20/40
Card payment apparatus involving password entry	G07F 7/10

G06Q 20/207

[N: Tax Processing]

Definition statement

This subclass/group covers:

Subject matter in which the sales terminal system computes tax on the transaction.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Financial accounting; calculating	G06Q 40/02

earned income, interest, insurance, premium, taxes	
Tax preparation or submission system other than a part of a cash register or a sales terminal	G06Q 40/103

G06Q 20/208

[N: Input by product or record sensing, e.g. weighing or scanner processing]

Definition statement

This subclass/group covers:

Payment by means of a POS where the sales information is input by sensing a property of the product being purchased or a record attached thereto.

References relevant to classification in this group

This subclass/group does not cover:

Coherence check of registered article data with parameters memorised for article	G07G 1/0054

Informative references

Attention is drawn to the following places, which may be of interest for search:

Computerised weighing scale which also computes price	G01G 19/414

G06Q 20/209

[N: Specified transaction journal output feature, e.g. printed receipt or voice output]

Definition statement

This subclass/group covers:

Payment by means of a POS where a journal or transaction data overview is output.

References relevant to classification in this group

This subclass/group does not cover:

Payment protocols involving a ticket, being an electronic receipt	G06Q 20/0453

Informative references

Attention is drawn to the following places, which may be of interest for search:

Cryptographic secure transaction verification	G06Q 20/401
Printing of receipt or journal of an ECR	G07G 5/00

G06Q 20/22

Payment schemes or models

Definition statement

This subclass/group covers:

Models or schemes defining the type of payment concept (at least two of the following paradigms are essential to the technical contribution or inventive concept: peer-to-peer, multiple accounts, pay after, pay now, pay before, micro-payments).

Special rules of classification within this group

If only one of the paradigms defined in the subgroups is pertinent, the document should be classified in the pertinent subgroup.

G06Q 20/223

[N: based on the use of peer-to-peer networks]

Definition statement

This subclass/group covers:

Payments involving peer-to-peer networks with no participation of a third party.

G06Q 20/227

[N: characterised in that multiple accounts are available to the payer]

Definition statement

This subclass/group covers:

During payment transaction, payer has the possibility to choose between multiple of his/her accounts for use during the transaction.

References relevant to classification in this group

This subclass/group does not cover:

This group is not meant for standard payments from any account to any account (where the "multiple" accounts each belong to a different party in the payment). These belong in	G06Q 20/10

Informative references

Attention is drawn to the following places, which may be of interest for search:

Cards with multiple accounts	G06Q 20/3572

G06Q 20/24

Credit schemes, i.e. "pay after"

Definition statement

This subclass/group covers:

Implementation of protocols in which payment according to a pay-later, credit card or deferred payment scheme is an essential aspect contributing to the inventive concept or technical merit of the protocol.

Special rules of classification within this group

Only if the credit aspect is essential to the technical or inventive concept.

G06Q 20/26

Debit schemes, i.e. "pay now"

Definition statement

This subclass/group covers:

Implementation of protocols in which payment according to a pay-now, debit card or immediate payment scheme is an essential aspect contributing to the inventive concept or technical merit of the protocol.

Special rules of classification within this group

Only if the debit aspect is essential to the technical or inventive concept.

G06Q 20/28

Pre-payment schemes, i.e. "pay before"

Definition statement

This subclass/group covers:

Implementation of protocols in which payment according to a pay-before or advance payment scheme is an essential aspect contributing to the inventive concept or technical merit of the protocol.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Cards defining paid or billed services or quantities, pre-paid cards	G06Q 20/342

Special rules of classification within this group

Only if the pre-payment aspect is essential to the technical or inventive concept.

G06Q 20/29

[N:characterised by micro-payments]

Definition statement

This subclass/group covers:

Payment schemes which include the use of micropayments or multiple small payments which get bundled and paid as a total of multiple micropayments, e.g. used for getting access to video, audio files or information.

G06Q 20/30

characterised by the use of specific devices

Definition statement

This subclass/group covers:

Data processing methods and protocols for payment applications using specific devices. This group and its subdivisions are based on details of the protocol based on the type of hardware used.

This group covers details of hardware used as a part of the protocol for the payment to be realised.

G06Q 20/305

[N: using a wired telephone network to facilitate payment]

Definition statement

This subclass/group covers:

Payments where the wired telephone network plays an essential role in the transaction.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payments settled via telecommunication systems	G06Q 20/16
Charging or billing for use of a telecommunication network based on a metering of data flow	H04L 12/14

G06Q 20/32

using wireless devices

Definition statement

This subclass/group covers:

Protocols which include or require the use or participation of a wireless terminal as an essential active party to the payment transaction. The use or participation of the wireless device is essential in defining the inventive contribution or concept.

Informative references

Attention is drawn to the following places, which may be of interest for search:

If use of the wireless network forms an essential part of the execution of the banking transaction or payment protocol	G06Q 20/325
Arrangements for metering, time-control or time-indication	H04M 15/00
Prepayment telephone systems	H04M 17/00
Accounting or billing of mobile application services or facilities	H04W 4/24

Special rules of classification within this group

H04M and H04W and subgroups deal with accounting and billing of the usage of a network, whereas G06Q 20/32 and subgroups deals with billing and payment of services provided by means of the network.

G06Q 20/322

[N: Aspects of commerce using mobile devices [M-devices]]

Definition statement

This subclass/group covers:
General details of payments by means of mobile apparatuses, not covered by any of the subgroups.

Special rules of classification within this group

Best fit priority rule

G06Q 20/3221

[N: Access to banking information through M-devices]

Definition statement

This subclass/group covers:
Banking information presentation by means of M-devices.

Attention is drawn to the following places, which may be of interest for search:

Remote banking, e.g. home-banking	G06Q 20/108

G06Q 20/3223

[N: Realising banking transactions through M-devices]

Definition statement

This subclass/group covers:
Banking transactions processed and realised by means of M-devices.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Remote banking, e.g. home-banking	G06Q 20/108

G06Q 20/3224

[N: Transactions dependent on location of M-devices]

Definition statement

This subclass/group covers:
Location of the mobile device used plays an essential role in executing or authorising a payment transaction.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Services making use of location of users or terminals	H04W 4/02

G06Q 20/3226

[N: Use of secure elements separate from M-devices]

Definition statement

This subclass/group covers:

Security aspects used during payments executed by an M-device are reliant on a secure element which does not form part of, or is not installed in the M-device, i.e. not the SIM or USIM.

References relevant to classification in this group

This subclass/group does not cover:

If the secure element is installed or embedded in the M-device	G06Q 20/3227
If the secure element is the SIM or USIM	G06Q 20/3229
Payments by additional cards plugged into M-devices	G06Q 20/353

G06Q 20/3227

[N: Use of a security embedded in M-devices]

Definition statement

This subclass/group covers:

Security aspects used during payments executed by an M-device are reliant on a secure element which does form part of, or is installed in the M-device.

References relevant to classification in this group

This subclass/group does not cover:

If the secure element is not installed or embedded in the M-device	G06Q 20/3226
If the secure element is the SIM or USIM	G06Q 20/3229
Payments by additional cards plugged into M-devices	G06Q 20/353

G06Q 20/3229

[N: Use of the SIM of a M-device as secure element]

Definition statement

This subclass/group covers:

Security aspects used during payments executed by an M-device are reliant on a secure element which forms part of the SIM or USIM.

References relevant to classification in this group

This subclass/group does not cover:

If the secure element is not installed or embedded in the M-device	G06Q 20/3226
If the secure element is installed or embedded in the M-device	G06Q 20/3227
Payments by additional cards plugged into M-devices	G06Q 20/353

Informative references

Attention is drawn to the following places, which may be of interest for search:

Authentication in networks using a SIM	H04L 29/06802

G06Q 20/325

[N: using wireless networks]

Definition statement

This subclass/group covers:

Use of the wireless network forms an essential part of the execution of the banking transaction or payment protocol.

Informative references

Attention is drawn to the following places, which may be of interest for search:

If use of the wireless device forms an essential part of the execution of the banking transaction or payment protocol	G06Q 20/32

If the wireless network is used for communicating confirmation information relating to a transaction attempted via another telecommunication network, or vice versa.	G06Q 20/425

Special rules of classification within this group

Best fit priority rule

G06Q 20/3255

[N: using an SMS for payment]

Definition statement

This subclass/group covers:

Communication via a wireless messaging system, e.g. SMS, MMS, USSD forms an essential part of the payment protocol.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Mobile application service signalling using SMS	H04W 4/14

G06Q 20/327

[N: Short range or proximity payments by means of M-devices]

Definition statement

This subclass/group covers:

Payments by means of M-device using short range or proximity communication with the transaction partner or payment terminal.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Cards using contactless	G06Q 20/352

communication means	
Details relating to card readers reading a card in a wireless manner	G07F 7/0893

G06Q 20/3272

[N: using an audio code]

Definition statement

This subclass/group covers:
Short range communication protocol where the device and the transaction partner communicate using an audio communication protocol, such as DTMF.

G06Q 20/3274

[N: using a pictured code, e.g. barcode or QR-code, being displayed on the M-device]

Definition statement

This subclass/group covers:
Short range communication protocol using a pictured code such as a barcode or QR-code displayed on the display of the M-device and read by the transaction partner.

References relevant to classification in this group

This subclass/group does not cover:

When the M-device takes a photograph of the optical code	G06Q 20/3276

G06Q 20/3276

[N: using a pictured code, e.g. barcode or QR-code, being read by the M-device]

Definition statement

This subclass/group covers:

Short range communication protocol using a pictured code such as a barcode or QR-code, being photographed by the M-device.

References relevant to classification in this group

This subclass/group does not cover:

When the M-device displays the optical code that is subsequently read by a transaction partner	G06Q 20/3274

G06Q 20/3278

[N: RFID or NFC payments by means of M-devices]

Definition statement

This subclass/group covers:

Payments using RFID or NFC-technology to communicate between the transaction entities.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Wirelessly communicating dongles or smart cards used for authorisation	G06F 21/35
Cards using contactless communication means	G06Q 20/352
Checkout procedures using an RFID reader	G07G 1/009

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

Near field communication (NFC)	Set of standards for smartphones and similar devices to establish radio communication with each other by touching them together or bringing

	them into close proximity, usually no more than a few centimetres.
Radio-frequency identification (RFID)	Use of a wireless non-contact system that uses radio-frequency electromagnetic fields to transfer data, for the purposes of automatic identification.

G06Q 20/34

using cards, e.g. integrated circuit [IC] cards or magnetic cards

Definition statement

This subclass/group covers:
This group and its subdivisions concerns all aspects of data processing methods and protocols used for payments by means of cards.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Methods or arrangements for sensing record carriers	G06K 7/00
Record carriers with integrated circuit chips	G06K 19/07
Details of the devices used for payment as such	G07F 7/00

Special rules of classification within this group

Best fit priority rule

G06Q 20/341

[N: Active cards, i.e. cards including their own processing means, e.g. including a IC or chip]

Definition statement

This subclass/group covers:

Active cards, i.e. cards containing their own processing means, are used as payment medium in the payment protocol.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Record carriers with integrated circuit chips	G06K 19/07
Use of a card together with a coded signal (PIN)	G07F 7/10

G06Q 20/3415

[N: Cards acting autonomously as pay-media]

Definition statement

This subclass/group covers:

Payment by active payment card that can execute or authenticate (part of) a payment transaction autonomously, without intervention of the payment terminal.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Details relating to displays or keyboards integrated in the card as well as other constructional details relating to the card	G07F 7/0806

G06Q 20/342

[N: Cards defining paid or billed services or quantities]

Definition statement

This subclass/group covers:

Cards defining a quantity of service or facility or objects for which the payment already took place and which the bearer has a right to access: e.g. prepaid cards, gift cards or anonymous debit cards, which are received after payment.

Attention is drawn to the following places, which may be of interest for search:

Pre-payment protocols, i.e. "pay before"	G06Q 20/28
Cards providing billing or transaction information at the time of purchase	G07F 7/025

G06Q 20/343

[N: Cards including a counter]

Definition statement

This subclass/group covers:

Card includes a counter or memory with discrete units of value that change by increase or decrease when the card is used.

Special rules of classification within this group

Best fit priority rule

G06Q 20/3433

[N: the counter having monetary units]

Definition statement

This subclass/group covers:

Card includes a counter or memory with discrete units of money or payment units that change by increase or decrease when the card is used.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electronic currency, e-cash, electronic money	G06Q 20/06
Electronic wallets or electronic purses	G06Q 20/36

G06Q 20/3437

[N: the counter having non-monetary units, e.g. trips]

Definition statement

This subclass/group covers:
Card includes a counter or memory with discrete units of number of actions registered, such as number of times card is used, which can change by increase or decrease when the card is used.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Photocopier cards	G07F 17/266

G06Q 20/346

[N: Cards serving only as information carrier of service]

Definition statement

This subclass/group covers:
Card is only used as intermediate carrier for identification data of user or for transaction data.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment protocols involving electronic tickets	G06Q 20/045
Cards providing billing or transaction information at the time of purchase	G07F 7/025

G06Q 20/347

[N: Passive cards]

Definition statement

This subclass/group covers:
Payment using passive cards, i.e. cards that do not contain their own

processing means. Card usually only contains a magnetic stripe or path.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Avoiding counterfeiting of passive cards	G07F 7/086

G06Q 20/348

[N: Single-use cards, i.e. without possibility of recharging]

Definition statement

This subclass/group covers:
Single-use value tokens or cards, which cannot be recharged.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Pre-payment protocols	G06Q 20/28
Payment protocols involving pre-paid cards	G06Q 20/342
Mechanisms operated by keys or other credit registering devices	G07F 7/02

G06Q 20/349

[N: Rechargeable cards]

Definition statement

This subclass/group covers:
Rechargeable tokens or cards which may be recharged or have their value updated.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electronic currency, e-cash,	G06Q 20/06

electronic money	
Pre-payment protocols	G06Q 20/28
Payment protocols involving pre-paid cards	G06Q 20/342
Electronic wallets or electronic purses	G06Q 20/36

G06Q 20/351

[N: Virtual cards]

Definition statement

This subclass/group covers:
Virtual cards used to access accounts or effectuate payments, without the user using any physical device, i.e. no physical card or mobile phone is used, but where the virtual cards emulate all the characteristics of its 'real' counterpart.

G06Q 20/352

[N: Contactless payments by cards]

Definition statement

This subclass/group covers:
Cards using contactless communication protocol to communicate.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payments using wireless devices	G06Q 20/32
Details of card readers used for payment purposes where the card is in a read contactless manner	G07F 7/0893

G06Q 20/353

[N: Payments by additional cards plugged into M-devices]

Definition statement

This subclass/group covers:

Cards using contactless communication protocol to communicate, where the card is plugged into an M-device, but communicates using its own contactless communication means.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Aspects of commerce using mobile device, where a secure element embedded in M-devices is used	G06Q 20/3227
Mobile devices using contactless communication means	G06Q 20/327

G06Q 20/354

[N: Card activation or deactivation]

Definition statement

This subclass/group covers:

Locally or remotely enabling or disabling cards or tokens, e.g. blocked when stolen or after expiration.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Enabling cards after being secured during personalization, issuing, or transport	G06Q 20/355
Active cards with means to personalize their use	G07F 7/1008

G06Q 20/355

[N: Personalisation of cards for use]

Definition statement

This subclass/group covers:

General aspects relating to the personalisation of payment cards before use.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment systems involving programming of a portable memory device	G06Q 20/105

Special rules of classification within this group

Best fit priority rule.

G06Q 20/3552

[N: Downloading or loading of personalisation data]

Definition statement

This subclass/group covers:

Downloading of payment applications or user-related data into or onto the card before use.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Aspects of software being resident on card as used during payment	G06Q 20/3563

G06Q 20/3555

[N: Personalisation of two or more cards]

Definition statement

This subclass/group covers:

Personalisation of two or more cards or personalisation of multiple users, possibly hierarchically.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment scheme where multiple accounts are available to the payor	G06Q 20/227
Use of cards having multiple users	G06Q 20/3578

G06Q 20/3558

[N: Preliminary personalisation for transfer to user]

Definition statement

This subclass/group covers:
Personalisation of payment cards before they are transferred to the user.

G06Q 20/356

[N: Aspects of software for card payments]

Definition statement

This subclass/group covers:
Details relating to software used to execute card payments.

Special rules of classification within this group

Best fit priority rule

G06Q 20/3563

[N: Software being resident on card]

Definition statement

This subclass/group covers:
Details relating to the software residing on the (active) payment card, which plays a part in execution of the payment transaction.

References relevant to classification in this group

This subclass/group does not cover:

Programming of a portable memory device, e.g. IC cards	G06Q 20/105

Downloading or loading of personalisation data onto card	G06Q 20/3552	

G06Q 20/3567

[N: Software being in the reader]

Definition statement

This subclass/group covers:

Details relating to the software residing on the card reader used in a card payment and which plays a part in execution of the payment transaction.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Methods or arrangements for reading record carriers	G06K 7/00
Details of card readers used for payment purposes	G07F 7/0873

G06Q 20/357

[N: Cards having a plurality of specified features]

Definition statement

This subclass/group covers:

Cards having a multitude of a specific feature, which do not fall within any of the subgroups.

Special rules of classification within this group

Best fit priority rule

G06Q 20/3572

[N: Multiple accounts on card]

Definition statement

This subclass/group covers:

Token or card that can be used to execute payment from a multitude of payment accounts.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payments schemes where the payer has access to multiple accounts	G06Q 20/227
Downloading or loading of personalisation data onto card	G06Q 20/3552
Establishing and using transaction specific rules, e.g. to automatically select a preferred account	G06Q 20/405

G06Q 20/3574

[N: Multiple applications on card]

Definition statement

This subclass/group covers:
Cards which store or accommodate a multitude of software applications to be used in a payment context.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payments schemes where the payer has access to multiple accounts	G06Q 20/227
Downloading or loading of personalisation data onto card	G06Q 20/3552
Establishing and using transaction specific rules, e.g. to automatically select a preferred account	G06Q 20/405

G06Q 20/3576

[N: Multiple memory zones on card]

Definition statement

This subclass/group covers:

Memory zones on a card assigned to one or more users and /or payment related services.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payments schemes where the payer has access to multiple accounts	G06Q 20/227
Downloading or loading of personalisation data onto card	G06Q 20/3552

G06Q 20/35765

[N: Access rights to memory zones]

Definition statement

This subclass/group covers:

Zone-allocation conditions and setting access conditions of zones allocated to different payment related applications and/or users of payment related applications.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Protection against unauthorised access of computer memory areas in general	G06F 12/14
Circuits for protecting data, e.g. PIN, in a card	G06K 19/073

G06Q 20/3578

[N: Hierarchy of users of cards]

Definition statement

This subclass/group covers:

Cards used by different users, with cards having use rights particular to each user or a hierarchy of use-rights.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payments schemes where the payer has access to multiple accounts	G06Q 20/227
Downloading or loading of personalisation data onto card	G06Q 20/3552
Establishing and using transaction specific rules, e.g. to automatically select a preferred account	G06Q 20/405

G06Q 20/35785

[N: Parent-child type, i.e. where parent has control on child rights]

Definition statement

This subclass/group covers:

Cards having parent-child type hierarchy of use-rights, where a parent user decides on the use conditions of the card applying to one or more dependent person(s).

Informative references

Attention is drawn to the following places, which may be of interest for search:

Establishing and using transaction specific rules, e.g. to automatically select a preferred account	G06Q 20/405

G06Q 20/36

using electronic wallets or electronic money safes

Definition statement

This subclass/group covers:

Aspects of the data processing method and protocols of payments by means

of electronic wallets and money safes, i.e. electronic purses.

The difference between "purses" and "wallets" is that the latter are the user's complete personal data files.

References relevant to classification in this group

This subclass/group does not cover:

Details of the devices used for payment	G07F 7/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Private payment circuits using e-cash, e-currency	G06Q 20/065

G06Q 20/363

[N: with the personal data files for a user]

Definition statement

This subclass/group covers:
The electronic wallet stores the personal data file of the user, i.e. all his personal and payment related information.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payments schemes where the payer has access to multiple accounts	G06Q 20/227
Downloading or loading of personalisation data onto card	G06Q 20/3552
Establishing and using transaction specific rules, e.g. to automatically select a preferred account	G06Q 20/405

G06Q 20/367

[N: involving intelligent token, e.g. electronic purse]

Definition statement

This subclass/group covers:

Aspects of the data processing method and protocols of payments by means of intelligent tokens including money safes e.g. electronic purses.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Programming of a portable memory device, e.g. IC cards, "electronic purses"	G06Q 20/105
Point of sale device having interface for record bearing medium or carrier for electronic funds transfer or payment credit	G06Q 20/204
Cards having a counter for counting monetary units	G06Q 20/3433

G06Q 20/3672

Intelligent token initialising or reloading

Definition statement

This subclass/group covers:

Subject matter wherein the intelligent token is programmed prior to use or its value bearing data is increased.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment protocols involving pre-paid cards	G06Q 20/342
Cards having a counter for counting monetary units	G06Q 20/3433
Rechargeable cards	G06Q 20/349

Personalisation of payment cards	G06Q 20/355

G06Q 20/3674

[N: involving authentication]

Definition statement

This subclass/group covers:

Payment procedures in which the authentication of the intelligent token is pertinent for the inventive concept. The token being an electronic wallet involving an electronic purse.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Security arrangements for protecting computers, components thereof, programs or data against unauthorised activity	G06F 21/00
Authorisation in payment protocols	G06Q 20/40

G06Q 20/3676

[N: Balancing accounts]

Definition statement

This subclass/group covers:

Subject matter including reconciliation of cumulative transaction data or synchronising account data on the portable data carrier with corresponding data from a host.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment system using e-cash managed centrally	G06Q 20/0655
Cheque-book balancing	G06Q 40/108

G06Q 20/3678

[N: e-cash details, e.g. blinded, divisible or detecting double spending]

Definition statement

This subclass/group covers:

Subject matter including specifics of e-cash or electronic purse value data stored on the intelligent token.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Security arrangements for protecting computers, components thereof, programs or data against unauthorised activity	G06F 21/00
Electronic currency, e-cash, electronic money	G06Q 20/06

Special rules of classification within this group

According to the method of managing the electronic cash, a classification in G06Q 20/065-G06Q 20/0658 should also be assigned. If details of the storage on a card itself are of importance, classify in G07F 7/08.

G06Q 20/38

Payment protocols; Details thereof

Definition statement

This subclass/group covers:

Specific steps of a protocol such as authorising a payment or confirming the validity of a proposed transaction before realising it, which steps define the inventive contribution or concept.

References relevant to classification in this group

This subclass/group does not cover:

Details of the devices used for payment	G07F 7/00

G06Q 20/381

[N: Currency conversion]

Definition statement

This subclass/group covers:

Aspects of a payment transaction relating to currency conversion and money exchanging.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Computers for unit and currency conversion	G06F 15/0258

G06Q 20/382

[N: insuring higher security of transaction]

Definition statement

This subclass/group covers:

Concepts for insuring higher security of transaction in general.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Security arrangements for protecting computers against unauthorised activity	G06F 21/00
Security aspects in data telecommunication	H04L 9/00

Special rules of classification within this group

Best fit priority rule. In case cryptography of the business transaction for shopping digital content is specially pertinent also a classification in G06Q 220/00 and subgroups may be given. However a classification in the G06Q 20/00 pertinent subgroups is mandatory.

G06Q 20/3821

[N: Electronic credentials]

Definition statement

This subclass/group covers:

Subject matter wherein digital data authorising a particular user to participate in a payment transaction is provided.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Use of a card together with a coded signal (PIN)	G07F 7/10
Credentials such as time stamps and certificates in telecommunication	H04L 9/32

G06Q 20/38215

[N: Use of certificates or encrypted proofs of transaction rights]

Definition statement

This subclass/group covers:

Use of certificates or encrypted proofs of transaction rights as payment credentials.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Security arrangements for computers using certificates	G06F 21/33
Credentials such as time stamps and certificates in telecommunication	H04L 9/32

Certificates for authentication in telecommunication networks	H04L 29/06775

G06Q 20/3823

[N: combining multiple encryption tools for a transaction]

Definition statement

This subclass/group covers:
Multiple forms of encryption are used throughout the payment transaction to provide further security.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Use of encryption for mutual authentication	G06Q 20/40975

G06Q 20/3825

[N: Use of electronic signatures]

Definition statement

This subclass/group covers:
Use of electronic (blind) signatures as authentication of payment or payment tokens.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Blind signatures in data telecommunication	H04L 9/32

G06Q 20/3827

[N:Use of message hashing]

Definition statement

This subclass/group covers:

Hash or message digest of transaction details is created and checked to ensure authenticity and integrity.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Protecting data integrity	G06F 21/00
Hashing in data telecommunication	H04L 9/32

G06Q 20/3829

[N: involving key management]

Definition statement

This subclass/group covers:

Management, e.g. by a certification authority, of the encryption keys used within the payment scheme.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Computer Security	G06F 21/00
Payment scheme using neutral trusted third party, e.g. certification authority	G06Q 20/02
Encryption in Telecommunications	H04L 9/32, H04L 29/06551

Special rules of classification within this group

If a Trusted third party or certification authority is required, classify also in G06Q 20/02.

G06Q 20/383

[N: Anonymous user system]

Definition statement

This subclass/group covers:

Protection of consumer privacy during payment transaction, e.g. enabling anonymous transactions.

Informative references

Attention is drawn to the following places, which may be of interest for search:

If a single-use account alias or transaction code is used	G06Q 20/385

G06Q 20/385

[N: Use of an alias or a single-use code]

Definition statement

This subclass/group covers:

An alias or single-use transaction code is used as a reference to an account or credit card number, i.e. as a substitute account number only valid for a given transaction.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Anonymous user system	G06Q 20/383

G06Q 20/387

[N: Payment using discounts or coupons (relating to marketing G06Q30/02)]

Definition statement

This subclass/group covers:

Discounts or coupons used within a payment transaction.

This group covers only the usage of discounts or coupons interacting with the payment protocol.

References relevant to classification in this group

This subclass/group does not cover:

Marketing aspects of discounts or coupons	G06Q 30/02

G06Q 20/388

[N: Mutual authentication without cards]

Definition statement

This subclass/group covers:

Mutual authentication between two parties of a payment transaction without using cards, for example, using a challenge response mechanism.

References relevant to classification in this group

This subclass/group does not cover:

Identity check for transaction	G06Q 20/4014
Mutual authentication between card and transaction partners	G06Q 20/4097

G06Q 20/389

[N: Keeping log of transaction for guaranteeing non-repudiation of a transaction]

Definition statement

This subclass/group covers:

Non-repudiation of a transaction is guaranteed by a notary-like third-party keeping a log of the transaction data as proof.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment scheme using a trusted third party (TTP)	G06Q 20/02
Electronic receipts	G06Q 20/0453

If trusted third party or notary plays important role in transaction, also classify in G06Q 20/02.

G06Q 20/40

Authorisation, e.g. identification of payer or payee, verification of customer or shop credentials; Review and approval of payers, e.g. check of credit lines or negative lists

Definition statement

This subclass/group covers:
Specific steps of a protocol relating to authorising a payment and which define the technical contribution or inventive concept.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Active credit-cards with PIN-introduction	G07F 7/10

Special rules of classification within this group

Best fit priority rule.

Only to be used if the authorisation aspect related to a payment transaction forms (part of) the inventive concept.

G06Q 20/401

[N: Transaction verification]

Definition statement

This subclass/group covers:
Subject matter wherein the details of a transaction are cryptographically processed to allow subsequent confirmation thereof.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Information security in computers or	G06F 21/00

digital processing systems	
Point of sale terminal with transaction journal output	G06Q 20/209
Keeping log of transaction for guaranteeing non repudiation	G06Q 20/389

Special rules of classification within this group

Cryptographic aspects of payment protocols should also be classified under G06Q 20/382 and subgroups.

G06Q 20/4012

[N: Verifying personal identification number [PIN]]

Definition statement

This subclass/group covers:

Subject matter wherein the personal identification number is confirmed for transaction verification.

References relevant to classification in this group

This subclass/group does not cover:

Coded identity card as such, combined with a coded signal, e.g. PIN	G07F 7/10

Informative references

Attention is drawn to the following places, which may be of interest for search:

Identity checks in computer security	G06F 21/31
Point of sale network systems comprising security or user identification provision e.g. password entry.	G06Q 20/206
Authorisation details of a payment protocol.	G06Q 20/40

Electronic cash registers	G07G 1/12

G06Q 20/4014

[N: Identity check for transaction]

Definition statement

This subclass/group covers:

Verification of the identity of the payer or payee in non-card payment procedures, not making use of biometric identity checks.

References relevant to classification in this group

This subclass/group does not cover:

Payment by coded identity card combined with a coded signal, e.g. PIN or biometric	G07F 7/10

Informative references

Attention is drawn to the following places, which may be of interest for search:

Computer access	G06F 21/31
Identity verification for access	G07C 9/00

Special rules of classification within this group

Best fit priority rule.

G06Q 20/40145

[N: Biometric identity checks]

Definition statement

This subclass/group covers:

Verification of the identity of the payer or payee in non-card payment procedures, making use of biometric identity checks.

G06Q 20/4016

[N: involving fraud or risk level assessment in transaction processing]

Definition statement

This subclass/group covers:

Evaluating the risk of a transaction, e.g. credit card payment or fraud detection.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Credit (risk) processing or loan processing	G06Q 40/02
Insurance risk analysis	G06Q 40/08

G06Q 20/4018

[N: using the card verification value [CVV] associated with the card]

Definition statement

This subclass/group covers:

Using the Card/Conventional Verification Value (CVV) to verify a transaction made using the card.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Credit schemes, i.e. "pay after"	G06Q 20/24

G06Q 20/403

[N: Solvency checks]

Definition statement

This subclass/group covers:

General aspects of verifying credit validity and/or solvency, without risk assessment, or system where a combination of offline and online solvency check methods are used.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Private payment circuits using e-cash, managed centrally or locally	G06Q 20/065

Special rules of classification within this group

Best fit priority rule. If only offline or online verification is used, classify in one of the subgroups.

G06Q 20/4033

[N: Local solvency checks]

Definition statement

This subclass/group covers:
Verifying credit validity or solvency, without risk assessment and without connecting to a server, e.g. offline.

G06Q 20/4037

[N: Remote solvency checks]

Definition statement

This subclass/group covers:
Verifying credit validity or solvency, without risk assessment and with connecting to a server, e.g. online.

G06Q 20/405

[N: Establishing or using transaction specific rules]

Definition statement

This subclass/group covers:
Establishing and using transaction specific rules that are managed locally or remotely, that both limit the (type of) allowed transactions or select between multiple accounts, e.g. if the amount is greater than $1,000, then use my

credit account because the interest rate is lower.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment scheme where multiple accounts are available to the payor	G06Q 20/227
Downloading or loading of personalisation data onto card	G06Q 20/3552
Cards having multiple accounts.	G06Q 20/3572

G06Q 20/407

[N: Cancellation of a transaction]

Definition statement

This subclass/group covers:
Payment features relevant specifically to cancelled transactions, e.g. reimbursement of funds.

G06Q 20/409

[N: Card specific authentication in transaction processing]

Definition statement

This subclass/group covers:
Authentication of card-like documents in general.

Informative references

Attention is drawn to the following places, which may be of interest for search:

User authentication for computer access using smart card	G06F 21/34
Payment by coded identity card combined with a coded signal, e.g. PIN or biometric	G07F 7/1008
Authentication arrangements for network security	H04L 29/06755

Special rules of classification within this group

Best fit priority rule

G06Q 20/4093

[N: Monitoring of card authentication]

Definition statement

This subclass/group covers:
Monitoring while authenticating a transaction by use of a transaction authentication number or the use of a security access module (SAM).

Informative references

Attention is drawn to the following places, which may be of interest for search:

Monitoring in computer security	G06F 21/00
Security modules in smart cards	G07F 7/0826

G06Q 20/4097

[N: Mutual authentication between card and transaction partners]

Definition statement

This subclass/group covers:
Mutual authentication between a card identifying or held by the user and the transaction partner, e.g. terminal, with which transaction is taking place.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Mutual authentication without cards	G06Q 20/388

Special rules of classification within this group

Details of the devices used for card payments should also be classified in

[G07F 7/10](#).

G06Q 20/40975

[N: Use of encryption for mutual authentication]

Definition statement

This subclass/group covers:

The two parties to the transaction exchange encrypted mutual
challenge-response(s) for authentication.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Combining multiple encryption tools for transaction	G06Q 20/3823

G06Q 20/42

Confirmation, e.g. check or permission by the legal debtor of payment

Definition statement

This subclass/group covers:

Specific steps of the protocol for confirming the validity of a proposed
transaction before realising it, which define the technical contribution or
inventive concept of the payment protocol, also including parent/child
confirmation.

This group covers confirmation of a proposed transaction, e.g. card holder
receives notification or message via mobile phone or personal computer for
confirmation and locally verifies that the transaction is known to him or her
and continues with a payment made with his or her card.

Special rules of classification within this group

Not to be confused with authorisation by a remote authority, such as a credit
company.

Best fit priority rule. If the payment network or the confirmation network is
wireless, classification in [G06Q 20/32](#) is required.

G06Q 20/425

[N: using two different networks, one for transaction and one for security confirmation]

Definition statement

This subclass/group covers:

To insure that the transaction attempted on a network is known and accepted by the user or customer use is made of a network which is different from the network to effectuate the transaction. The second network is associated with the user or customer and is used to get a confirmation to realise the transaction.

Special rules of classification within this group

If the payment network or the confirmation network is wireless, classification under G06Q 20/32 is also required.

G06Q 30/00

Commerce, e.g. shopping or e-commerce

Definition statement

This subclass/group covers:
Data processing systems or processes specially adapted for billing, commerce or marketing, i.e. promoting, buying or selling of goods or services, billing models.

The following subjects are therefore covered, in the case where no special technical features or issues have been identified, the list being non-exhaustive:

- On-line catalogues;

- Advertising on web-pages;

- Matching systems, both applicable to goods or persons;

- Referrals from other web-sites, e.g. Portals, to shops and fees associated therewith;

- Marketing, e.g. Marketing research, or promotion, e.g. Based on coupons, purchase history, or purchases of competitive brands;

- Loyalty programs like air-miles, saving for pension or education etc., insofar as they do not cover payment aspects;

- Price determination, e.g. As a function of time of day, shelf life, weather etc. And electronic price labels;

- Auctions and, in particular, on-line auctions, insofar as they do not cover payment aspects, but not stock exchanges;

- Systems to match buyers and sellers but not stock exchanges, e.g. Group purchasing, collaborative buying;

- Renting/leasing;

- Collaborative browsing, where e.g. A sales representative pushes web pages to a prospect (collaborative editing of documents is however to be found in G06Q 10/10), but it may also be found in G06Q 40/02 (for banking) or in H04M 51/3 (hotline arrangement);

- Billing or invoicing for purchased goods, content or services: it concerns the preparation and sending of the bill, either by mail or on-line, including shipping costs, tax etc.

Where special technical features / issues have been identified, a sub-group should be allocated.

References relevant to classification in this group

This subclass/group does not cover:

Delivery of the goods bought in an electronic shopping environment, e.g. logistic	G06Q 10/08, G06Q 50/28
Electronic payment	G06Q 20/00
Electronic finance, e.g. buying, selling or trading of financial instruments like stocks, options or futures per se	G06Q 40/00

Examples of places where the subject matter of this group is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Billing or payment related to telephone services	H04M 15/00
Billing or payment related to wireless services	H04W 4/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Secure communication, e.g. by cryptography	H04L 9/00
Protocols for controlled communication	H04L 29/06
Wireless services	H04W

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

In this group, the following terms or expressions are used with the meaning indicated:

Electronic commerce or e-commerce	Any of buying, selling, marketing or servicing of products or services over computer networks.

G06Q 30/01

[N: Customer relationship, e.g. warranty]

Definition statement

This subclass/group covers:

Subject matter drawn to data processing systems or processes specially adapted for facilitating, or exercising agreements, in customer services from providers.

G06Q 30/012

[N:Product or service warranty]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the registration or status of an agreement, in which a provider will, a limited period of time, repair or replace an article or rework a service, if that article or service is deemed to be defective within the terms of that agreement.

G06Q 30/014

[N: Product recall]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for requesting the return to the maker, of a batch or an entire production run of a product, usually due to the discovery of safety issues, or to the maintenance of the status of such a request.

G06Q 30/016

[N: Customer service, i.e. after purchase service]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the planning or utilizing of assistance or other resources that a company may provide to the people who bought or used its products or services, e.g. helpdesk or customer support.

Informative references

Attention is drawn to the following places, which may be of interest for search:

On-line customer service before or during purchase	G06Q 30/0601
Computer systems used in buying/selling transactions	G06Q 30/06

G06Q 30/018

[N: Business or product certification or verification]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for documentation, data collection, processing or monitoring to ensure the veracity or factuality of the status of an entity's qualifications, either required or claimed by that entity in execution of a business requirement or legal process.

Included herein is subject matter associated with land use by an entity, carbon credits, emissions, abatement, product compliance, clinical trials, trade agreements, licensing, degree verification, government test, regulatory compliance, continuing education requirements, safety compliance and documentation of legal proceedings, such as courtroom transcripts.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Computerised arrangement for the management of the work performed by a lawyer for a client	G06Q 50/18
Business data generation, filing or manipulation without means for business data distribution, processing or usage in a business environment	G06F 17/30
Processing of medical data	G06F 19/00

G06Q 30/0185

[N: Product, service or business identity fraud]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the analysis or detection of (1) illegitimate use of a product or service, misrepresentation of the authenticity of products or services, (2) approved sources of products or services, or (3) the coding or marking of product with data used for authentication.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Fraud prevention in connection with a coupon or other incentive	G06Q 30/0225
Fraud detection in advertising	G06Q 30/0248
Fraud prevention involving financial transactions	G06Q 40/00
Detection of illicit use of personal	G06Q 50/265

information, such as identity fraud analysis or detection means for determining that a person or business entity is who they say they are	
Technical details of records carriers (RFIDs, bubble codes, etc...)	G06K 19/00

G06Q 30/02

Marketing, e.g. market research and analysis, surveying, promotions, advertising, buyer profiling, customer management or rewards; Price estimation or determination

Definition statement

This subclass/group covers:

Data processing systems or processes specially adapted for marketing, i.e. advertising, coupons, promotions, loyalty programs, market research, recommendation of goods, surveying, profiling in connection with buying or selling of goods or services.

The following subjects are therefore covered, the list being non-exhaustive:

- Advertising on web-pages.

- Inferring profiles from activity.

- Generating leads.

- Market research

- Surveys.

- Referrals from other web-sites, e.g. Portals, to shops and fees associated therewith;

- Marketing, e.g. Marketing research, or promotion, e.g. Based on coupons, purchase history, or purchases of competitive brands;

- Loyalty programs like air-miles, collection of points, redemption of points;

- Location-based advertising (maps with next shop, best offers around current position);

- Customer assistance;

- Electronic price labels;

- Displaying of in-door advertisements;

- Management of lists of coupons.

References relevant to classification in this group

This subclass/group does not cover:

Printing of coupons at a Point of Sale	G07G 1/12

Informative references

Attention is drawn to the following places, which may be of interest for search:

Advertising in general	G09F
Payments using discounts or coupons	G06Q 20/387
Recorded advertised messages	H04M 3/4878

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

In this group, the following terms or expressions are used with the meaning indicated:

Marketing	Includes customer assistance

G06Q 30/0201

[N: Market data gathering, market analysis or market modelling]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for collecting, organising or analyzing data concerning a market in order to understand or predict the impact of market factors on the operation or activity of the enterprise.

This group includes formulating strategies or representations related to the market, which are used for analysis and planning.

Market data can include various factors, trends, or relationships reflecting customer behaviour, competitor behaviour, market influences, or market activity.

A market factor is a feature or characteristic in a market that is related to the demand for a product or service, e.g. number of households.

A market is an environment where products and services are offered for sale to a group of potential consumers, and includes the parties of potential consumer, sellers, producers, or competitors.

Subject matter herein may include market data collection or the routing of market research data by (1) data mining; (2) monitoring transmitted communications; or (3) accessing data from stored databases or other sources.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Market research related to resource optimization or planning	G06Q 10/0631
Market demand data, such as order data used to plan resource allocation to meet the demand	G06Q 10/06315
Analysis of discount or incentive effectiveness	G06Q 30/0211
Analysis of advertisement effectiveness	G06Q 30/0242
Inspection, selection, or purchase of items, using technology-based commerce	G06Q 30/0623
Financial markets and trading	G06Q 40/00
General collection of data into a database schema or structure for applying database schemas or structures to commercial and scientific fields	G06F 17/30

G06Q 30/0202

[N: Market predictions or demand forecasting]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the processing of market data in order to (1) forecast the future demand and the size of the market for a product or service; (2) use market data to predict a value for a product or service or (3) predict the impact of market factors on the operation or activity of the enterprise.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Calculating price, cost, or charges	G06Q 30/0283
Keyboard controlled code transmitting device	G06Q 40/00

G06Q 30/0203

[N: Market surveys or market polls]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for collecting or analyzing data elicited from a participant or user, e.g. a questionnaire.

G06Q 30/0204

[N: Market segmentation]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for analysis of the market, based on a breakdown of that market into homogeneous groups, e.g. by demographic, geographic, psychographic or behavioural characteristics.

G06Q 30/0205

[N: Location or geographical consideration]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for analysis of the market, based on a breakdown of that market into homogeneous groups, e.g. by demographic, geographic, psychographic or behavioural characteristics.

This group includes formulating strategies related to the market factors specific to a geographical location or plural geographical locations, such as analysis of customer buying habits relative to location, geographical factors considered relative to a planned business location, geographical factor relative to product or service offerings in a particular business location or the need for sales representatives coverage in a geographic region.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Data processing or calculating computer that is designed for or utilised to calculate price, cost or charges	G06Q 30/0283
Location based service using target	H04M 3/42348

G06Q 30/0206

[N: Price or cost determination based on market factors]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for analysis of the market, based on a breakdown of that market into homogeneous groups, e.g. by demographic, geographic, psychographic or behavioural characteristics.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Data processing or calculating computer that is designed for or utilised to calculate price, cost or charges	G06Q 30/0283

G06Q 30/0207

[N: Discounts or incentives, e.g. coupons, rebates, offers or upsales]

Definition statement

This subclass/group covers:

Subject matter for price reduction of, or premium credit resulting from, the purchase of a good or service, or a commercial offer to incite, stimulate, or provoke an increase in business, through a commercial transaction.

The recitation of a discount or incentive in name only, e.g. "coupon", "rebate") is insufficient to classify a document in this group.

Informative references

Attention is drawn to the following places, which may be of interest for search:

System for awarding a coupon, token, or credit which can be used to view a video program	G06Q 20/208
Display or advertising system	G06Q 30/0241

G06Q 30/0208

[N: Trade or exchange of a good or service for an incentive]

Definition statement

This subclass/group covers:

Subject matter drawn to a user acquiring an inducement that includes swapping an article of merchandise or a provided service (of the type that is normally bought or sold in commerce) with a merchant or service provider.

A simple exchange of currency for an incentive, by itself, does not constitute the swapping of a good or service and is therefore classified elsewhere.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Referral award system	G06Q 30/0214
Frequent usage incentive system, e.g. frequent flyer miles program,	G06Q 30/0226

point system	

G06Q 30/0209

[N: Incentive being awarded or redeemed in connection with the playing of a video game]

Definition statement

This subclass/group covers:

Subject matter in which a user participates in a competitive activity according to a set of rules to play a video entertainment involving skill, chance or endurance, i.e. video game, in which a merchant provides a discount or incentive to the user, or an incentive, e.g. points, can be used in order to play a video game.

The term "video entertainment" is intended to cover only video games.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electronic data processing including means for providing a monetary-type accounting for the purpose of: (a) payment to start or continue a game; or (b) wagering	A63F 9/24
Gaming systems	G07F 17/32

G06Q 30/0211

[N: Determining discount or incentive effectiveness]

Definition statement

This subclass/group covers:

Subject matter in which an analysis is conducted in order to ascertain the degree to which the intended or expected result of offering a discount or incentive is achieved.

G06Q 30/0212

[N: Chance discounts or incentives]

Definition statement

This subclass/group covers:

Subject matter in which the incentive is the opportunity to participate in a random event, e.g. sweepstakes, jackpots, games, lotteries, to obtain a reward or prize, e.g. a discount.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Incentive or award obtained through participation in an electronic game	G06Q 30/0209
Evaluation of answer or responses from a participant to possibly obtain an incentive or award	G06Q 30/0218
Board games, pieces, or boards, per se, for a contest of skill or chance	A63F 3/00
Printed matter having revealable concealed information	B42D 15/00
Casino games, online gambling or betting	G07F 17/32

G06Q 30/0213

[N: Consumer transaction fees for buying in into an incentive program]

Definition statement

This subclass/group covers:

Subject matter wherein a payment from an individual is required to participate in a program to gain an incentive or discount award.

G06Q 30/0214

[N: Referral award systems]

Definition statement

This subclass/group covers:

Subject matter wherein an individual is given an incentive after meeting a

predetermined criterion of directing, e.g. inviting or referring, an individual to a business, program, or product or service.

G06Q 30/0215

[N: Including financial accounts]

Definition statement

This subclass/group covers:
Subject matter wherein the incentive reward is in the form of money or credit applied to a user's monetary account.

The term "account" is defined as a formal business arrangement providing for regular dealings or services.

G06Q 30/0216

[N: Investment accounts]

Definition statement

This subclass/group covers:
Subject matter wherein an individual has the opportunity to invest a reward provided by the merchant, e.g. money market or stocks, in order to realise a financial gain.

G06Q 30/0217

[N: Giving input on a product or service or expressing a customer desire in exchange for an incentive or reward]

Definition statement

This subclass/group covers:
Subject matter wherein an inducement is given to an individual for exchanging information with a merchant or third party about a good, or work done or duty performed for the individual or others, or something that the individual wishes for.

This input is often acquired by giving the individual a quiz or having the individual fill out a questionnaire or survey.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Chance to obtain a discount or incentive by playing a video game	G06Q 30/0209

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Market survey	G06Q 30/0203
Individual receiving a discount or incentive for enrolling in a program sponsored by, or for identifying themselves to, a merchant.	G06Q 30/0236
Payments using discounts or coupons	G06Q 20/387

G06Q 30/0218

[N: based on score]

Definition statement

This subclass/group covers:

Subject matter wherein an incentive or award is based on an evaluation or grade of a participants answer or response.

G06Q 30/0219

[N: based on funds or budget]

Definition statement

This subclass/group covers:

Subject matter wherein a discount or incentive for a purchase of a commodity or service is provided to the public based on a monetary limit or cap established by a merchant.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Promotion provided based on budget or funds	G06Q 30/0249

G06Q 30/0221

[N: Re-usable coupons]

Definition statement

This subclass/group covers:

Subject matter drawn to an offer which can be used more than once to receive a discount or incentive.

G06Q 30/0222

[N: During e-commerce, i.e. online transactions]

Definition statement

This subclass/group covers:

Subject matter in which a discount or incentive is provided or redeemed during the course of an electronic transaction.

The "term electronic" transaction covers a transaction wherein the user uses any kind of network having at one end a terminal to execute the transaction consisting of buying or selling goods or services.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment in electronic shopping systems	G06Q 20/12
Promotion provided during an electronic transaction	G06Q 30/0253

G06Q 30/0223

[N: based on inventory]

Definition statement

This subclass/group covers:

Subject matter wherein a discount or incentive is provided based on a tracking or counting of goods or services available or sold by merchant.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Inventory or stock management	G06Q 10/087

G06Q 30/0224

[N: based on user history]

Definition statement

This subclass/group covers:

Subject matter in which a past purchase or interest of an individual is considered to provide a present or future discount or incentive to the individual.

User history may be obtained through cookies, discount cards, user search.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Recording user activity	G06F 11/34
Communication control involving user profiles	H04L 29/06 S10B

G06Q 30/0225

[N: Avoiding frauds]

Definition statement

This subclass/group covers:

Subject matter drawn to the prevention of unfair, dishonest, or deceitful action by a consumer to acquire an incentive or discount for a commodity or service.

This group provides for methods of preventing fraudulent redemption of coupons or incentives in combination with a nominal recitation of cryptographic methods, e.g. encrypting, scrambling, or other means such as barcodes or watermarks, which may be used to identify the authenticity of an incentive or discount.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Printed matter having revealable concealed information, fraud preventer or detector, use preventer or detector, or identifier	B42D 15/00
Details of cryptographic apparatus or methods uniquely designed for, or utilised in the practice, administration,	G06Q 220/00

or management of an enterprise, the processing of financial data, or where a charge for goods or services is determined	
Avoiding fraud in POS payment systems	G07G 3/00
Transaction verification	G06Q 20/401

G06Q 30/0226

[N: Frequent usage incentive systems, e.g. frequent flyer miles programs or point systems]

Definition statement

This subclass/group covers:

Subject matter wherein an individual is given a frequent usage incentive after meeting predetermined criteria for demonstrating loyalty towards a product, merchant or service.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Private payment circuits	G06Q 20/06
Loyalty cards	G07F 17/0035

G06Q 30/0227

[N: Frequent usage incentive value reconciliation between diverse systems]

Definition statement

This subclass/group covers:

Subject matter wherein a computer system calculates the fair return or equivalent in goods, services or money for a frequent usage incentive in order to make that frequent usage incentive consistent with a frequent usage incentive from a different program.

G06Q 30/0228

[N: On-line clearing houses]

Definition statement

This subclass/group covers:

Subject matter wherein a computer system on a network is designed for the reconciliation and trading of frequent usage incentive points or miles.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment architectures involving a third party being a clearing house, e.g. ACH	G06Q 20/023

G06Q 30/0229

[N: Multi-merchant loyalty card systems]

Definition statement

This subclass/group covers:

Subject matter wherein operators of separate retail establishments each operate their own frequent usage incentive system under a single card which certifies customer membership.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Details of multi-account cards	G07F 7/00

G06Q 30/0231

[N: Awarding of a frequent usage incentive independent of the monetary value of a good or service purchased, or distance travelled]

Definition statement

This subclass/group covers:

Subject matter wherein a frequent usage incentive, e.g. point, mile, is

awarded on the basis of criteria which are not a function of the monetary amount of merchandise or services bought, or distance traversed.

A frequent usage incentive based on the number of transactions, rather than the monetary amount of transactions, or the number of trips, rather than the distance travelled, is classified here.

G06Q 30/0232

[N: Frequent usage rewards other than merchandise, cash or travel]

Definition statement

This subclass/group covers:
Subject matter wherein the frequent usage reward does not come in the form of a commodity or good that is normally bought or sold in the business giving the frequent usage incentive, nor in the form of currency or a check, or free or discounted travel services.

For purposes of this group definition, cash is paper money, coins or checks.

Gift certificates and gift cards are not considered cash and are therefore included in this group.

G06Q 30/0233

[N: Method of redeeming a frequent usage reward]

Definition statement

This subclass/group covers:
Subject matter which describes the manner in which a user selects or receives their frequent usage reward.

G06Q 30/0234

[N: Rebate after completed purchase, i.e. post transaction awards]

Definition statement

This subclass/group covers:
Subject matter wherein, at some time after the purchase of merchandise or services, part of the purchase price paid is returned to the purchaser.

G06Q 30/0235

[N: Including timing, i.e. limited awarding or usage time constraint]

Definition statement

This subclass/group covers:

Subject matter in which a discount or incentive is provided or redeemed within limited time constraints.

The term "constraint" is not limited to a time frame or period of time. The term covers at least one of start time, time frame, period of time, end time.

G06Q 30/0236

[N: Incentive or reward received by requiring registration or ID from user]

Definition statement

This subclass/group covers:

Subject matter in which an individual receives a discount or incentive for enrolling in a program sponsored by or for identifying themselves to a merchant.

Informative references

Attention is drawn to the following places, which may be of interest for search:

E-cash with decreasing value according to a parameter, e.g. time	G06Q 20/0652
Customer buying in into an incentive program	G06Q 30/0213

G06Q 30/0237

[N: at kiosk]

Definition statement

This subclass/group covers:

Subject matter wherein a discount or incentive is provided or redeemed at a small standalone structure.

Informative references

Discount or incentive provided during an online transaction	G06Q 30/0222

G06Q 30/0238

[N: at point-of-sale [POS]]

Definition statement

This subclass/group covers:

Subject matter in which a discount or incentive is provided or redeemed at a place where transfer of goods or services is executed.

A coupon dispensing or redeeming electronic cash register is classified in this group.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Point of sale payment systems	G06Q 20/20
Discount or incentive provided during an online transaction	G06Q 30/0222

G06Q 30/0239

[N: Online discounts or incentives]

Definition statement

This subclass/group covers:
Subject matter wherein a discount or incentive is provided through the use of the World Wide Web.

G06Q 30/0241

[N: Advertisement]

Definition statement

This subclass/group covers:
Subject matter drawn to the action of promoting or calling to the attention of

the public any goods or services to induce the public to buy or use the goods or services.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Displaying; advertising; signs; labels or nameplates	G09F
Inserting or substituting a video program or other information such as audio or text messages beyond the control of a viewer through a video signal	H04N 7/08

G06Q 30/0242

[N: Determination of advertisement effectiveness]

Definition statement

This subclass/group covers:
Subject matter in which an analysis is conducted in order to ascertain the degree to which the intended or expected result of a promotion is achieved.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Development of an advertisement	G06Q 30/0276

G06Q 30/0243

[N: Comparative campaigns]

Definition statement

This subclass/group covers:
Subject matter drawn to a side-by-side examination of two or more promotions in order to determine which one attains the highest degree of intended or expected results.

G06Q 30/0244

[N: Optimisation]

Definition statement

This subclass/group covers:

Subject matter drawn to an analysis of a constraint of a promotion resulting in a reworking of that promotion to improve the current or future effectiveness thereof.

G06Q 30/0245

[N: Surveys]

Definition statement

This subclass/group covers:

Subject matter drawn to the collection of public opinion about a promotion in order to determine the effectiveness of a promotion.

G06Q 30/0246

[N: Traffic]

Definition statement

This subclass/group covers:

Subject matter wherein the commercial activity generated by a promotion is analyzed.

G06Q 30/0247

[N: Calculate past, present or future revenues]

Definition statement

This subclass/group covers:

Subject matter drawn to a determination of monetary gain from a promotion at a point of time.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Determination of compensation or billing for promotional goods or services.	G06Q 30/0273

G06Q 30/0248

[N: Avoiding fraud]

Definition statement

This subclass/group covers:

Subject matter drawn to the prevention of unfair dishonest or deceitful action by an individual to acquire or obtain a better promotion for goods or services.

This group provides for methods of fraud prevention in combination with a nominal recitation of cryptographic methods, e.g. encrypting scrambling, or other means such as barcodes watermarks, which may be used to identify the authenticity of a promotion.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Details of cryptographic apparatus or methods uniquely designed for or utilised in the practice administration or management of an enterprise the processing of financial data or where a charge for goods or services is determined	G06Q 220/00
Printed matter having revealable concealed information fraud preventer or detector use preventer or detector or identifier	B42D 15/00

G06Q 30/0249

[N: based upon budgets or funds]

Definition statement

This subclass/group covers:

Subject matter wherein a promotion is provided to the public based on a monetary limit or cap established by a merchant.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Discount or incentive provided based	G06Q 30/0219

on a budget or funds	

G06Q 30/0251

[N: Targeted advertisement]

Definition statement

This subclass/group covers:

Subject matter wherein a promotion is directed at or to an individual or individuals based on predetermined criteria.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Communication control involving user profiles	H04L 29/06 S10B

G06Q 30/0252

[N: based on events or environment, e.g. weather or festivals]

Definition statement

This subclass/group covers:

Subject matter in which an organised activity or atmospheric or climatic condition is used in order to promote goods or services.

G06Q 30/0253

[N: During e-commerce, i.e. online transactions]

Definition statement

This subclass/group covers:

Subject matter in which a promotion is provided during the course of an electronic transaction.

The term "electronic transaction" covers a transaction wherein the user uses any kind of network having at one end a terminal to execute the transaction consisting of buying or selling goods or services

Informative references

Attention is drawn to the following places, which may be of interest for search:

Discount or incentive provided during an electronic transaction	G06Q 30/0222
Payments for electronic shopping	G06Q 20/12

G06Q 30/0254

[N: based on statistics]

Definition statement

This subclass/group covers:

Subject matter drawn to the compilation collection analysis or interpretation of numerical facts or data to distribute or produce a promotion that reaches a targeted group.

The term "numerical facts" is intended to include any logistic or mathematical conclusion or process that helps to determine probabilities or theories of behaviour or conditions of state of a predetermined group.

G06Q 30/0255

[N: based on user history]

Definition statement

This subclass/group covers:

Subject matter drawn to the compilation collection analysis or interpretation of numerical facts or data to distribute or produce a promotion that reaches a targeted group.

The term "numerical facts" is intended to include any logistic or mathematical conclusion or process that helps to determine probabilities or theories of behaviour or conditions of state of a predetermined group.

G06Q 30/0256

[N: User search]

Definition statement

This subclass/group covers:

Subject matter wherein an individual uses a computer system looking for some information and a promotion is presented due to the entered key word.

G06Q 30/0257

[N: User requested]

Definition statement

This subclass/group covers:
Subject matter wherein a user selects a promotion.

G06Q 30/0258

[N: Registration]

Definition statement

This subclass/group covers:
Subject matter in which an individual exchanges information with a merchant in order to receive future promotions.

References relevant to classification in this group

This subclass/group does not cover:

This group does not cover:Customer buying in into an incentive program	G06Q 30/0213
Incentive or reward received by requiring registration from user	G06Q 30/0236

G06Q 30/0259

[N: based on store location]

Definition statement

This subclass/group covers:
Subject matter wherein the position of a store is used to determine a type of promotion to present to an individual.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Transactions dependent on location of mobile device	G06Q 20/3224

G06Q 30/0261

[N: based on user location]

Definition statement

This subclass/group covers:

Subject matter wherein the position of an individual is used to determine a type of promotion to present.

This group is not intended to cover any location wherein the individual is in a vehicle.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Targeted advertisement directed to an individual inside a vehicle	G06Q 30/0266
Payment transactions dependent on location of mobile device	G06Q 20/3224

G06Q 30/0262

[N: during computer stand-by mode]

Definition statement

This subclass/group covers:
Subject matter wherein a promotion is displayed on a computer while the computer is in an idle or hibernation mode.

G06Q 30/0263

[N: based upon Internet or website rating]

Definition statement

This subclass/group covers:
Subject matter wherein a promotion is presented on at least one worldwide page based on quality performance or weighting factor of the World Wide Web page.

G06Q 30/0264

[N: based upon schedule]

Definition statement

This subclass/group covers:

Subject matter drawn to the specific time or day that a promotion is going to be available or exposed to the public.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Subject matter wherein the duration of time a consumer spends viewing an advertisement is measured or wherein the time an advertisement is available for viewing is measured	G06Q 30/0272

G06Q 30/0265

[N: Vehicular advertisement]

Definition statement

This subclass/group covers:

Subject matter wherein the targeted promotion is located within on the exterior surface or attached to an apparatus for carrying or transporting individuals or goods.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Mobile visual advertising	G09F 21/00

G06Q 30/0266

[N: based on the position of the vehicle]

Definition statement

This subclass/group covers:

Subject matter in which the location of the vehicle is used to determine a type of promotion to present.

G06Q 30/0267

[N: Wireless devices]

Definition statement

This subclass/group covers:

Subject matter in which a promotion is transmitted to or received on an electronic contrivance which uses radio waves to transmit or receive data.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payments using wireless devices	G06Q 20/32

G06Q 30/0268

[N: at point-of-sale [POS]]

Definition statement

This subclass/group covers:

Subject matter wherein a promotion is used to target individuals at a place where the exchange of goods or services for money is executed.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Point of Sale payment systems	G06Q 20/20
Promotion provided during an electronic transaction	G06Q 30/0253
Printing of coupons at a Point of Sales	G07G 1/12

G06Q 30/0269

[N: based on user profile or attribute]

Definition statement

This subclass/group covers:

Subject matter wherein a set of data or a characteristic of an individual is used to increase interest in a promotion.

G06Q 30/0271

[N: Personalised advertisement]

Definition statement

This subclass/group covers:

Subject matter wherein at least one personal characteristic, e.g. name, birthday, age, phone number, or address, of an individual is added to a promotion.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment transactions dependent on location of mobile device	G06Q 20/3224
Communication control involving user profiles	H04L 29/06836
Advertisement for registered users	G06Q 30/0213, G06Q 30/0258

G06Q 30/0272

[N: Period of advertisement exposure]

Definition statement

This subclass/group covers:

Subject matter in which the duration of time a consumer spends viewing an advertisement is measured or wherein the time an advertisement is available for viewing is measured.

G06Q 30/0273

[N: Fees for advertisement]

Definition statement

This subclass/group covers:

Subject matter drawn to compensation or billing for the promotion of a good or

a service.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Determination of monetary gain used to make a decision as to whether a promotion should be published or released	G06Q 30/0247

G06Q 30/0274

[N: Split fees]

Definition statement

This subclass/group covers:
Subject matter in which a compensation or billing for promotional goods or services is divided between two or more parties.

G06Q 30/0275

[N: Auctions]

Definition statement

This subclass/group covers:
Subject matter drawn to a sale at which promotions for goods or services are sold to the highest bidder.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Auctions of items/services per se	G06Q 30/08

G06Q 30/0276

[N: Advertisement creation]

Definition statement

This subclass/group covers:

Subject matter drawn to the design development of a promotion.

G06Q 30/0277

[N: Online advertisement]

Definition statement

This subclass/group covers:
Subject matter wherein a promotion is presented on the World Wide Web.

G06Q 30/0278

[N: Product appraisal]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for the determination of a monetary value for a particular item, e.g. cars, antiques or houses.

G06Q 30/0279

[N: Fundraising management]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for a system for developing, organising or monitoring the organised activity of soliciting and collecting money for a non-profit or political organisation.

G06Q 30/0281

[N: Customer communication at a business location, e.g. providing product or service information, consulting]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for communications directed to client in a place of business by means of a wired or a wireless network.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Application including analysis of business processes or operations research	G06Q 10/063
Coupon or other incentive	G06Q 30/0207
Advertising	G06Q 30/0241
Mechanism for effecting a transaction and determining the amount of a sale which may also be a terminal in a system	G06Q 20/20
System which enables a purchaser to inspect or select from a plurality of different items or make a purchase of one or more items at a location geographically separated from the system user	G06Q 30/0623
Telephone apparatus and communications, e.g. without means for business data distribution, processing or usage in a business environment	H04W 4/00
Computer conferencing communications distribution, without means for business data distribution, processing or usage in a business environment	G06F 15/16

G06Q 30/0282

[N: Business establishment or product rating or recommendation]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for ranking or collecting reviews regarding business entities or the products or the services of business entities.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Application including analysis of business processes or operations research	G06Q 10/063
Application including on-line browsing or purchase of a product or service	G06Q 30/0601
File or database maintenance; for data access, generation, filing, manipulation, e.g. without means for business data distribution, processing or usage in a business environment	G06F 17/30

G06Q 30/0283

[N: Price estimation or determination]

Definition statement

This subclass/group covers:

Subject matter wherein the data processing or calculating computer is designed for or utilised in determining charges for goods or services.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Reservation system including means for calculating a fare	G06Q 10/02
Cash register for calculating cost/price of commodity	G06Q 20/20
PLU processing in Cash register	G07G 1/145

G06Q 30/0284

[N: Time or distance, e.g. usage of parking meters or taximeters]

Definition statement

This subclass/group covers:

Subject matter wherein the charge reflects a purchased activity period or is determined using the units of miles or kilometres travelled.

The charge may include special fee or surcharge due to special time of day or year, location.

References relevant to classification in this group

This subclass/group does not cover:

Taximeters (e.g. constructional aspects)	G07B 13/00,
Arrangements or apparatus for collecting fares, tolls or entrance fees at one or more control points	G07B 15/00
Parking meters	G07F 17/24

Informative references

Attention is drawn to the following places, which may be of interest for search:

Time duration or rate measuring	G04F 1/00
Reservations, e.g. for tickets, services or events	G06Q 10/02

G06Q 30/04

Billing or invoicing, [N: e.g. tax processing in connection with a sale]

Definition statement

This subclass/group covers:
Data processing systems or processes specially adapted for billing, i.e. aggregating and presenting bills to consumers of goods or services, billing models.

This does not cover the metering of consumption of electricity/water or communication units, but only the billing activity per se.

The following subjects are therefore covered, the list being non-exhaustive:

Billing or invoicing for bought goods, content or services: it concerns the

preparation and sending of the bill, either by mail or on-line, including shipping costs, tax etc.

References relevant to classification in this group

This subclass/group does not cover:

Metering / Telemetering of consumption of electricity/water or communication units	G01D 4/00 G01R 11/00 G01R 22/00 H04L 12/14 H04M 15/00
Coin-freed apparatus with meter-controlled dispensing of liquid, gas or electricity	G07F 15/00
Billing system in payments	G06Q 20/14
Electronic banking	G06Q 40/02

Examples of places where the subject matter of this group is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Billing or payment related to telephone services	H04M 15/00
Billing or payment related to wireless services	H04W 4/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Financial accounting; calculating earned income, interest, insurance premium, taxes, billing or invoicing	G06Q 40/00, G06Q 40/02, G06Q 40/10

G06Q 30/06

Buying, selling or leasing transactions

Definition statement

This subclass/group covers:

Data processing systems or processes specially adapted for commerce i.e. data processing systems for buying or selling of goods or services.

The following subjects are therefore covered, the list being non-exhaustive:

Subject matter drawn to a computerised arrangement for the determination of a monetary value for a particular item, e.g. Cars, antiques or houses;

Price determination, e.g. As a function of time of day, shelf life, weather etc. And electronic price labels;

Systems for ordering, i.e. Enabling the selection of a product

Collaborative browsing, where e.g. A sales representative pushes web pages to a prospect (collaborative editing of documents is however to be found in G06Q 10/10), but it might as well be found in G06Q 40/02 (for banking) or in H04M 3/51 (hotline arrangement);

Indoor position systems for helping a customer find products in a supermarket

References relevant to classification in this group

This subclass/group does not cover:

Delivery of the goods bought in an electronic shopping environment, e.g. logistic	G06Q 10/08, G06Q 50/28
Electronic payment	G06Q 20/00
Electronic finance, e.g. buying, selling or trading of financial instruments like stocks, options or futures per se	G06Q 40/00

G06Q 30/0601

[N:Electronic shopping]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement which enables a shopper to investigate, locate, specify, requisition, order, or purchase one or more items for sale or trade using a device configured to include telecommunications functionality for the exchange of information concerning the one or more items.

In-store shopping arrangements in which the device is shopper-operated are classifiable in this or its indented subgroups.

Browsing of a selection without a purchase transaction is classified in this or its indented subgroups.

An "item" for the purposes of classification in this and its indented subgroups, unless otherwise indicated, is a non-fungible good or service which is considered and traded primarily on the basis of differences in attributes, character, quality or features. This definition is intended to distinguish an "item" for classification in this and indented subgroups from fungible items which are considered and traded in exchanges almost solely on the basis of price and volume, e.g. financial securities, financial instruments, and commodities such as precious metals, agricultural products, energy or fuels, minerals and some manufactured goods serving as raw materials, with little or no consideration to differences in attributes, character, quality or features. "Items" elsewhere provided for in this subclass (G06Q), e.g. insurance products or services, or advertisement or promotion placement, are classifiable where provided for.

A "shopping recommendation" for the purposes of classification in this or its indented subgroups is a referral that is an offer for sale that manifests a willingness by an offerer to enter into a trade, so made as to justify an offeree's understanding that assent to that trade is invited and will conclude it.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Public or commercial announcement promoting one or more items not manifesting to the offeree that the offeree's assent will conclude the bargain, e.g. advertisement or promotion placement. See also, for an arrangement in which significance is attributed to facilitating the presentation of public or commercial announcements promoting one or more items, e.g. advertisement or promotion placement	G06Q 30/0241
Payments in electronic shopping	G06Q 20/12

G06Q 30/0603

[N: Catalogue ordering]

Definition statement

This subclass/group covers:
Data processing systems or processes specially adapted for remote ordering, i.e. data processing systems for buying or selling of goods or services.

The following subjects are therefore covered, the list being non-exhaustive:

- On-line catalogues;

- Catalogues for phone ordering

G06Q 30/0605

[N:Supply or demand aggregation]

Definition statement

This subclass/group covers:
Subject matter specifically configured to facilitate and support a trading protocol for pooling or grouping trading partners based upon their mutual desire for one or more items or upon their ability to satisfy at least a portion of the desire for the one or more items.

Subject matter specifically configured to enable the sale or trade of "items" not classifiable in this or its indented subgroups, e.g. financial securities, financial instruments, and commodities such as precious metals, agricultural products, energy or fuels, minerals and manufactured goods; insurance products and services; or advertisement or promotion placement, is classifiable where provided for.

G06Q 30/0607

[N:Regulated]

Definition statement

This subclass/group covers:
Subject matter specifically configured to facilitate and support the trade of one or more items requiring special considerations due to a restrictive nature of their sale or trade, e.g. restricting sales of regulated items to persons in a particular jurisdiction based upon certain criteria such as time of day, day of week, age of the customer, type of product being sold.

G06Q 30/0609

[N:Buyer or seller confidence or verification]

Definition statement

This subclass/group covers:

Subject matter specifically configured to facilitate and support confidence in the commerce venue or assurance that commerce participants conform to specified conditions or requirements for entry or participation in transactions.

G06Q 30/0611

[N:Request for offers or quotes]

Definition statement

This subclass/group covers:

Subject matter specifically configured to facilitate and support a competitive trading protocol for the proposed purchase of a desired item having acceptable terms and conditions and having predefined rules for presentation of items for sale or submission and consideration of terms and conditions.

G06Q 30/0613

[N:Third-party assisted]

Definition statement

This subclass/group covers:

Subject matter configured to facilitate and support third-party, e.g. concurring, neutral, trusted, representative, approving, or anonymising intermediaries, agents, brokers, personnel, inspectors or facilitators, participation in a shopping activity.

Participation of only those parties with an intimate role in the shopping activity is classified here, i.e., the transaction cannot be completed without their participation.

Third parties include people, computerised agents or computer programs.

Customer service at or during purchase is classified here.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Trusted third party in payment processing	G06Q 20/02

G06Q 30/0615

[N:Anonymising]

Definition statement

This subclass/group covers:

Subject matter wherein the third party participant in a transaction acts to hide the identity of either the buyer or seller.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Anonymous user systems in payment systems	G06Q 20/383

G06Q 30/0617

[N:Representative agent]

Definition statement

This subclass/group covers:

Subject matter wherein the third party participant facilitates a transaction on behalf of the buyer or seller according to agreed-upon rules or conditions.

G06Q 30/0619

[N:Neutral agent]

Definition statement

This subclass/group covers:

Subject matter wherein the third party participant facilitates a transaction in a manner which equally supports all participants.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Neutral trusted third parties in payment systems	G06Q 20/023

G06Q 30/0621

[N:Item configuration or customisation]

Definition statement

This subclass/group covers:

Subject matter drawn to an arrangement specifically configured to permit a shopper to specify shopper-defined or seller-defined attributes, characteristics, features, or components in the design, modification, or adaptation of one or more items for assembly and purchase.

G06Q 30/0623

[N:Item investigation]

Definition statement

This subclass/group covers:

Subject matter drawn to an arrangement specifically configured to permit a shopper to systematically discover, examine, study or inquire into the particulars of one or more items.

G06Q 30/0625

[N:Directed, with specific intent or strategy]

Definition statement

This subclass/group covers:

Subject matter drawn to researching using a formal process, including parametric searches, queries or keywords.

G06Q 30/0627

[N:using item specifications]

Definition statement

This subclass/group covers:

Subject matter drawn to discovery of an item incorporating a statement of the specific materials, dimensions, characteristics or quality of the desired item or items.

G06Q 30/0629

[N:for generating comparisons]

Definition statement

This subclass/group covers:

Subject matter drawn to examining items so as to identify the similarities or

differences there between.

G06Q 30/0631

[N:Item recommendations]

Definition statement

This subclass/group covers:

Subject matter drawn to referral of the one or more items as advisable or alternative, e.g. based on a personal profile or demographic; shopping, purchase or usage history; or item rating or review.

G06Q 30/0633

[N:Lists, e.g. purchase orders, compilation or processing]

Definition statement

This subclass/group covers:

Subject matter drawn to an arrangement specifically configured to permit the composing, compiling, approving or processing of one or more purchase lists, requisitions or purchase orders for electronic submission of an order to one or more sellers for one or more items for sale or trade.

Shopping, wish or gift lists, or electronic shopping carts, are classified here.

G06Q 30/0635

[N:Processing of requisition or of purchase orders]

Definition statement

This subclass/group covers:

Subject matter drawn to actions applied by an orderee to a purchase request, requisition or purchase order for goods or services following its preparation and submittal by an orderer.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Cryptographic remote charge determination or payment systems	G06Q 20/085

G06Q 30/0637

[N:Approvals]

Definition statement

This subclass/group covers:

Actions taken by the entity to whom the requisition or purchase order is submitted to provide permission for subsequent processing or for a purchase to be made.

G06Q 30/0639

[N:Item locations]

Definition statement

This subclass/group covers:

Subject matter drawn to identifying a physical position of one or more items relative to a physical position of a shopper, another item or a fulfillment location.

G06Q 30/0641

[N:Shopping interfaces]

Definition statement

This subclass/group covers:

Subject matter wherein the device includes a feature for the visual or audible presentation of information concerning the one or more items for sale or trade.

A shopping interface designed or intended for use by a customer, e.g. at an in-store kiosk, is classified in this or its indented subgroups.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Display and data representation in vending machines	G07F 9/023

G06Q 30/0643

[N:Graphical representation of items or shoppers]

Definition statement

This subclass/group covers:

Subject matter where the device includes a feature for the visual presentation of one or more images of one or more items, e.g. for side-by-side comparative display, one or more items relative to a person, usage or shopping environment, e.g. virtual fitting room, virtual design showcase or virtual store, or a shopper avatar or image representing a shopper.

G06Q 30/0645

[N:Rental, i.e. leasing]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the creation or maintenance of a record keeping system for recording the allocation of the temporary use of commodities.

References relevant to classification in this group

This subclass/group does not cover:

Reservation or allocation of a rented item	G06Q 10/02

Informative references

Attention is drawn to the following places, which may be of interest for search:

Rental payment transactions occurring at a point of sale terminal or electronic cash register in a retail outlet or kiosk	G06Q 20/20
Electronic shopping, e.g. remote ordering, for on-line remote browsing or payment for rental commodities	G06Q 30/0601
Payment or funds transfer associated with a rental transaction	G06Q 40/00

G06Q 30/08

Auctions, [N: matching or brokerage (matching or brokerage for stock exchange G06Q40/04]

Definition statement

This subclass/group covers:

Subject matter specifically configured to facilitate and support a competitive trading protocol for the presentation and sale or trade of at least one item and having predefined rules for bid submission, bid consideration, and winner determination.

The following subjects are therefore covered, the list being non-exhaustive:

matching systems, both applicable to goods or persons;

time-stamping of bids;

price or winner determination in an auction.

References relevant to classification in this group

This subclass/group does not cover:

Delivery of the goods bought in an electronic auction	G06Q 10/08, G06Q 50/00
Management of the inventory of goods proposed in an electronic auction	G06Q 10/08, G06Q 50/00
Electronic payment	G06Q 20/00
Electronic finance, e.g. buying, selling or trading of financial instruments like stocks, options or futures per se	G06Q 40/00

G06Q 40/00

Finance; Insurance; Tax strategies; Processing of corporate or income taxes

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for planning the disposition or use of funds or securities, or extension of credit.

Data processing systems or processes specially adapted for financial applications, e.g. management of monetary assets.

Data processing systems or processes specially adapted for management of

a binding contract to indemnify a party against a specific loss in exchange for a paid premium.

The following subjects are therefore covered, the list being non-exhaustive:

- Banking applications, e.g. Preparation of bank statements, interest calculation, saving accounts, mortgage calculation, credit ratings, home-banking, on-line banking, electronic funds transfer (eft) systems;

- Financial or exchange applications, e.g. Trading stock, options, ordering of stock, index balancing;

- Investment, e.g. Fund management, portfolio management;

- Insurance or pension applications, e.g. Premium calculation, risk assessment or actuarial computations.

References relevant to classification in this group

This subclass/group does not cover:

Electronic payment or payment aspects of banking applications	G06Q 20/00
Electronic payment using cards	G06Q 20/34

Informative references

Attention is drawn to the following places, which may be of interest for search:

Buying, selling or trading of goods or services	G06Q 30/00
Secure communication, e.g. by cryptography	H04L 9/00
Protocols for controlled communication	H04L 29/06
Record-sensing devices in combination with a system that maintain financial accounts; i.e. a banking system	G07F 19/00
Data processing in buying-selling transactions	G06Q 30/06
Financial accounting	G06Q 40/10

G06Q 40/02

Banking, e.g. interest calculation, credit approval, mortgages, home banking or on-line banking

Definition statement

This subclass/group covers:

Data processing systems or processes specially adapted for (home-) banking applications, e.g. interest calculation, credit approval for a customer, mortgage processing when buying a house, home banking or on-line banking.

The following subjects are therefore covered, the list being non-exhaustive:

- Banking applications, e.g. Preparation of bank statements, interest calculation, saving accounts, mortgage calculation, credit ratings, home-banking, on-line banking.

- Processing of tax refunds.

- Financial accounting, e.g. account balancing.

References relevant to classification in this group

This subclass/group does not cover:

Electronic payment or payment aspects of banking applications	G06Q 20/00
Payments in home banking	G06Q 20/108
Electronic payment using cards	G06Q 20/34

Informative references

Attention is drawn to the following places, which may be of interest for search:

Buying, selling or trading of goods or services	G06Q 30/00
Secure communication, e.g. by cryptography	H04L 9/00
Protocols for controlled communication	H04L 29/06

G06Q 40/025

[N:Credit processing or loan processing, e.g. risk analysis for mortgages]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for evaluation of the risk factors in a loan determination.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Record-sensing device in combination with a system that includes the ascertaining of credit	G06K 7/00
Risk analysis, e.g. for insurance or pensions	G06Q 40/08

G06Q 40/04

Exchange, e.g. stocks, commodities, derivatives or currency exchange

Definition statement

This subclass/group covers:
Subject matter including the trading or exchange of securities or commodities within an organised system.

Data processing systems or processes specially adapted for trading in the context of stock, FX exchanges, e.g. trading of stocks and currency exchange.

The following subjects are therefore covered, the list being non-exhaustive:

- Stock exchange applications, e.g. Trading stock, options, ordering of stock, general stock trading administration;

- Foreign exchange, e.g. currency trading and currency exchange.

Note:

This group includes distribution of services or products, e.g. utilities, heating, in a building by an "auction" or bidding system.

References relevant to classification in this group

This subclass/group does not cover:

Electronic payment or payment aspects of banking applications	G06Q 20/00
Computation of a price of a financial asset, risk assessment or actuarial computations on portfolio	G06Q 40/06
Smart grid: negotiating offer and demand and trading electricity	H02J 3/008

G06Q 40/06

Investment, e.g. financial instruments, portfolio management, fund management

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for planning the selection or evaluation of securities or other investments for a single entity.

Data processing systems or processes specially adapted for financial investments, e.g. financial planning and tools.

The following subjects are therefore covered, the list being non-exhaustive:

investing in general;

portfolio management, e.g. fund management;

Financial instruments, e.g. long term investment tools.

Note:

The term "entity" refers to an individual or other legally recognised body.

References relevant to classification in this group

This subclass/group does not cover:

Electronic payment or payment aspects of banking applications	G06Q 20/00

Electronic payment using cards	G07F 7/08

Informative references

Attention is drawn to the following places, which may be of interest for search:

Buying, selling or trading of goods or services	G06Q 30/00
Data switching in stock quotation systems	H04L 12/1804
Secure communication, e.g. by cryptography	H04L 9/00
Protocols for controlled communication	H04L 29/06

G06Q 40/08

Insurance, e.g. risk analysis or pensions [N: (processing of insurance policies or claims G06Q10/10)]

Definition statement

This subclass/group covers:

Subject matter drawn to a computer implemented system or method for writing an insurance policy or processing an insurance claim.

Data processing systems or processes specially adapted for risk analysis.

Insurance or pension applications, e.g. premium calculation, risk assessment or actuarial computations.

Computing the risk of an earthquake taking place.

Computing the premium to be paid when joining an insurance.

Note:

Included herein is a system for administering an insurance backed security, investment or credit card.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Claim processing	G06Q 10/10

G06Q 40/09

[N: Tax strategies]

Definition statement

This subclass/group covers:

Subject matter drawn to a strategy for addressing future tax liability, risk and or payment of taxes to a government entity.

References relevant to classification in this group

This subclass/group does not cover:

Tax preparation software for accounting or for filing taxes that give taxpayers all deductions or credits possible to minimise tax liability for current taxes	G06Q 40/103

G06Q 40/10

[N: Accounting]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for recording, analyzing, verifying or reporting of funds or other quantitatively innumerable factors used in a business.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electrical registers for registering counts for different monetary amounts	G06M 3/08

G06Q 40/103

[N: Tax preparation or submission]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for determining or submitting a tax or tax form to a governmental entity.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Tax processing in POS payment systems	G06Q 20/207

G06Q 40/105

[N: Finance or payroll]

Definition statement

This subclass/group covers:

Subject matter for analysis or allocation of time utilised by and billable to an individual or other entity.

G06Q 40/108

[N: Check-book balancing, updating or printing arrangement]

Definition statement

This subclass/group covers:

Subject matter including an arrangement for attaching a data processing device to a checkbook, which processes transaction data to verify, or carry forward, the checkbook balance, or to print a check (or a cheque), upon to entry of an account transaction.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Checkbook attached digital calculator, in which the transaction information is limited to the date or transaction amount	G06F 15/025
Receipt giving machines	G07G 5/00

Online banking	G06Q 40/02

G06Q 50/00

Systems or methods specially adapted for a specific business sector, e.g. utilities or tourism

Definition statement

This subclass/group covers:

Data processing systems having undergone an adaptation that renders them particular to a special business sector.

Relationship between large subject matter areas

Health care related subject matter specially adapted for administrative, commercial, financial, managerial, supervisory or forecasting purposes is classified in G06Q 50/00, while subject matter for other purposes, such as digital computing or data processing equipment or methods specially adapted for calculating or processing of medical or biological data for scientific purposes is classified in G06F 19/00.

Take care that, when e.g. making appointments with a doctor, as soon as medical considerations are relevant G06F 19/30 is taking precedence (e.g. order of a series of appointments [such as, blood test then scanner then doctor consultation]).

Special rules of classification within this group

When classifying in any groups of G06Q 50/00, systems or methods that are specially adapted for a specific business sector must also be classified in a group among any of G06Q 10/00-G06Q 40/00 or have already another group assigned to them(e.g. G06K 19/00 + G06Q 50/00H RFID specially adapted for use in an hospital), when the special adaptation is determined to be novel and non-obvious.

When no special adaptation has taken place, no class in the G06Q 50/00 should be allocated.

G06Q 50/01

[N: Social networking]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the management of interaction between individuals or entities who are connected by one or more common relations or interests.

G06Q 50/02

Agriculture; Fishing; Mining

Definition statement

This subclass/group covers:

Subject matter covering the business sector specially adapted for farming, catching of aquatic animals, or extracting valuable minerals or other geological materials from the Earth.

References relevant to classification in this group

This subclass/group does not cover:

Precision agriculture	A01B 79/005

G06Q 50/04

Manufacturing

Definition statement

This subclass/group covers:

Subject matter covering the business sector specially adapted for the production of goods.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electricity grids	H02J 3/00
CAD/CAM	G06F 17/50

G06Q 50/06

Utility usage, e.g. electricity, gas or water supply

Definition statement

This subclass/group covers:

Subject matter wherein the business sector is specially adapted for:

- Monitoring the distribution of energy or determining charges reflecting a consumed quantity of power or energy, e.g. Electricity, gas, therm or water

- Determining charges for a dispensed volume or a delivered quantity of a flowing substance, e.g. liquid or gas

Informative references

Attention is drawn to the following places, which may be of interest for search:

Power logging, e.g. metering	G01R 21/00
Apparatus with meter-controlled dispensing	G07F 15/00

G06Q 50/08

Construction

Definition statement

This subclass/group covers:

Subject matter covering the business sector specially adapted for the design, trade, or work of building, e.g. bridges or highway building.

G06Q 50/10

Services

Definition statement

This subclass/group covers:

Subject matter covering the business sector specially adapted for providing assistance or helpful activities required or requested by customers or public.

G06Q 50/12

Hotels, restaurants or bars

Definition statement

This subclass/group covers:

Data processing systems or methods specially adapted for lodging or particularly designed for use in an establishment serving food or drink to buyers.

Note:

Classification in this group requires some relationship to either the preparation or serving of food or drink. Incidental placement of a system in such an environment, e.g., an electronic cash register in a restaurant, does not of itself cause classification in this group.

G06Q 50/14

Travel agencies

Definition statement

This subclass/group covers:
Subject matter covering the business sector specially adapted for providing necessary arrangements or accommodation for travellers, e.g. tour guide planning.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Car Navigation	G01C 21/00
Touring guides, maps	G09B 29/00
Mobile services, location based services	H04W 4/02

G06Q 50/16

Real estate

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for the development or construction of buildings or to the process of buying and selling of land, including the natural resources and permanent buildings.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Real estate appraisal	G06Q 30/0278
Real estate leasing	G06Q 30/0645
Financing real estate	G06Q 40/025

G06Q 50/163

[N: Property management]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for managing the operation of commercial, industrial or residential real estate.

G06Q 50/165

[N: Land development]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the development or construction of buildings or to the process of buying and selling of land, including the natural resources and permanent buildings.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Real estate appraisal	G06Q 30/0278
Real estate leasing	G06Q 30/0645
Financing real estate	G06Q 40/025

G06Q 50/167

[N: Closing]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the transfer of ownership of and title to property from one person to another for a price.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Legal services associated with a real estate sale	G06Q 50/18

G06Q 50/18

Legal services; Handling legal documents

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for work performed by a lawyer for a client.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Management of intellectual property which may be done by a lawyer	G06Q 50/184

G06Q 50/182

[N: Alternative dispute resolution]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the development or maintenance of procedures or processes, e.g. arbitration, re conciliation, mediation, that are voluntarily adopted to resolve controversies (or to settle disagreements) before taking recourse to legal action, i.e. litigation.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electronic negotiation including an	G06Q 50/188

offer and acceptance or counteroffer among parties	

G06Q 50/184

[N: Intellectual property management]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the creation or maintenance of a rights management system for intangible property which protects the products of human intelligence and creation, i.e. as copyrightable works, patented inventions, trademarks or trade secrets.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Portfolio valuation	G06Q 40/06,G06Q 40/09
Digital Rights Management with encryption	G06Q 220/00
Computer security, data protection	G06F 21/00

G06Q 50/186

[N: Estate planning]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for the drawing up of a will, the setting up of a trust, or (if it minimizes estate taxes) for the passing of property to one's heirs before one's death as well as for the setting up post-life arrangements e.g. funerals.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Computerised arrangement for planning the disposition or use of funds or securities, or extension of	G06Q 40/00

credit	

G06Q 50/188

[N: Electronic negotiation]

Definition statement

This subclass/group covers:
Subject matter including an offer and acceptance or counteroffer among parties.

G06Q 50/20

Education

Definition statement

This subclass/group covers:
Subject matter covering the business sector specially adapted for providing necessary arrangements, guidance, or accommodations for students.

References relevant to classification in this group

This subclass/group does not cover:

Teaching systems per se	G09B

G06Q 50/205

[N: Education administration or guidance]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for (1) the business of conducting, organising, or maintaining the management functions of an organisation concerned with teaching, (2) the management of the process of institution or course selection or (3) the management of assistance programs.

This group includes continuing education planning.

Informative references

Arrangement for planning the disposition or use of funds or securities, or extension of credit	G06Q 40/00
Arrangement for recording, analyzing, verifying or reporting of funds or other quantitatively innumerable factors used in a business	G06Q 40/10
Subject matter dealing with instruction, demonstration or grading of students	G09B 25/00

G06Q 50/2053

[N: Education institution selection, admissions, or financial aid]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for analysis or assistance in the process of selection of an educational resource, course selection, entry requirements or assistance associated with payment or reimbursement for tuition.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangement for planning the disposition or use of funds or securities, or extension of credit	G06Q 40/00
Arrangement for recording, analyzing, verifying or reporting of funds or other quantitatively innumerable factors used in a business	G06Q 40/10

G06Q 50/2057

[N: Career enhancement or continuing education service]

Definition statement

This subclass/group covers:

Subject matter drawn to a computerised arrangement for analysis or assistance associated with career change or advancement.

This group includes computerised arrangements for analyzing or tracking credit for work experience.

G06Q 50/22

Health care, e.g. hospitals; Social work

Definition statement

This subclass/group covers:

Data Processing systems or methods specially adapted for administrative or managerial aspects of healthcare or welfare.

References relevant to classification in this group

This subclass/group does not cover:

Digital computing or data processing equipment or methods specially adapted for medical informatics, i.e. computer-based analysis or dissemination of patient or disease data	G06F 19/30

Informative references

Attention is drawn to the following places, which may be of interest for search:

Office automation, e.g. groupware, office work in progress	G06Q 10/10
Spreadsheets	G06F 17/246
Relational databases	G06F 17/30
Form filling	G06F 17/243

G06Q 50/24

Patient record management

Definition statement

This subclass/group covers:
TBD

G06Q 50/26

Government or public services

Definition statement

This subclass/group covers:
Subject matter covering the business sector specially adapted for providing service to citizens, e.g. environmental protection, fire, law enforcement, military, public library, public transportation, public housing, social services.

G06Q 50/265

[N: Personal security, identity or safety]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for (1) ensuring the legal or uninterrupted enjoyment by a person of their life, their body, their health or their reputation, e.g. TSA airport screening, public venue admission screening, in order to bar an individual who may cause harm to another, (2) for the detection of illicit use of personal information, such as analysis or detection means for determining that a person or business entity is who they say they are or (3) for protective measures or protocol to prevent injury.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Access control or authentication, involving biometrics	G06F 21/00474
Image analysis for personnel identification, e.g. biometrics	G06K 19/07349
Fraud associated with business products or services	G06Q 30/0185
Fraud prevention or detection during financial transactions	G06Q 40/00

G06Q 50/28

Logistics, e.g. warehousing, loading, distribution or shipping

Definition statement

This subclass/group covers:

Subject matter covering logistics, e.g. planning and scheduling the flow of material/products between different locations, track and trace systems for parcels, tracing of environmental conditions during transport, just-in-time delivery, loading and unloading trucks for a particular business sector.

Special rules of classification within this group

Documents already classified in G06Q 10/08 are not classified here (redundant)

G06Q 50/30

Transportation; Communications

Definition statement

This subclass/group covers:

Subject matter covering the business sector specially adapted for providing service of moving people, animals, or goods from one location to another; or providing a particular service via communications, e.g. customer using handsets or mobile devices for transmitting a request for transportation from a given geographic location.

G06Q 50/32

Post and telecommunications (franking apparatus G07B17/00)

Definition statement

This subclass/group covers:

Subject matter covering the business sector specially adapted for providing postal transportation and telecommunications, e.g. postal related services over the internet.

References relevant to classification in this group

This subclass/group does not cover:

Franking apparatus	G07B 17/00
Sorting postal items	B07C

G06Q 50/34

Betting or bookmaking, e.g. Internet betting

Definition statement

This subclass/group covers:
Subject matter covering the business sector specially adapted for gambling or the wagering of money or something of material value on an event with an uncertain outcome with the primary intent of winning additional money and/or material goods.

Special rules of classification within this group

Documents must also be classified in G07F 17/32

G06Q 90/00

Systems or methods specially adapted for administrative, commercial, financial, managerial, supervisory or forecasting purposes, not involving significant data processing

Definition statement

This subclass/group covers:
Systems or methods not involving significant data processing specially adapted for managing, promoting, or practicing commercial, financial, supervisory or forecasting activities, provided that:

No significant data processing is involved

systems or methods are specially adapted for the purposes covered by the groups G06Q 10/00-G06Q 50/00; and

systems or methods cannot be classified elsewhere in the CPC.

The following subjects are therefore covered, the list being non-exhaustive:

systems or methods not involving significant data processing for conducting polls or referendums, e.g. paper based systems;

systems or methods not involving significant data processing for carrying out interviews, e.g. a method of interviewing people in the street;

layout for a particular store;

rules for placing products, e.g. toys placed in the bottom of a shelf.

Special rules of classification within this group

When classifying systems or methods as in the definition in this group, additional classification may be made in the most closely related group of this or any other subclass, if the classification gives information about the application of the systems or methods that could be interest for search. Such non-obligatory classification must be given as "additional information".

G06Q 90/20

[N: Destination assistance within a business structure or complex]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for providing direction information at a business location or the creation of direction plan for a business location.

G06Q 90/205

[N:Building evacuation]

Definition statement

This subclass/group covers:
Subject matter drawn to a computerised arrangement for the removal of people from a structure for protective purposes.

Included herein is a computerised arrangement for the creation of a removal plan.

G06Q 99/00

Subject matter not provided for in other groups of this subclass

Definition statement

This subclass/group covers:
Subject matter not provided for in other groups of this subclass.

Subject-matter that falls under subclass G06Q but is not otherwise provided

for in groups G06Q 10/00 to G06Q 90/00, i.e. it is a residual group which covers new technologies.

This group also includes subject matter under the group in which the data processing is not clearly described as electrical or being performed by a computer.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Business processing using cryptography	G06Q 220/00

Special rules of classification within this group

As the title of the subclass covers exactly the titles of the groups G06Q 10/00 to G06Q 90/00, it is hard to imagine any technology that would fit the subclass but none of the groups, hence this group should probably remain empty.

It might be used temporarily for new technologies (e.g. q-bit computers) provided a special use/adaptation has taken place that makes the technology specially adapted for a particular purpose. However, such technology should most probably be classified elsewhere, and when the technology becomes widely used, an adaptation of the scheme G06Q 10/00 to G06Q 90/00 should be envisaged.

G06Q 220/00

Business processing using cryptography

Definition statement

This subclass/group covers:

Subject matter including cryptographic apparatus or methods uniquely designed for or utilised in the practice, administration, or management of an enterprise, the processing of financial data, or where a charge for goods or services is determined.

References relevant to classification in this group

This subclass/group does not cover:

Postage metering system using cryptography	G06Q 250/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electronic cash registers other than digital data processing aspects thereof	G07G 1/12
Secret communication	H04K 1/00
Ciphering or deciphering apparatus for cryptographic or other purposes involving the need for secrecy	G09C
Transmission	H04B
Reducing bandwidth of signals	H04B 1/66
Spread spectrum techniques in general	H04B 1/69
By using a sub-carrier	H04B 14/08
Multiplex communication	H04J,H04N 7/16
Secret or subscription television systems	H04N 7/16
Arrangements for secret or secure communication	H04L 9/00
Data protection via encryption	G06F 21/00

G06Q 220/10

Usage protection of distributed data files

Definition statement

This subclass/group covers:

Subject matter wherein the usage of distributed information representing a selection by an individual is controlled by encryption.

Examples of such distribution can be by way of a storage medium such as a CD or by downloading.

G06Q 220/12

Usage or charge determination

Definition statement

This subclass/group covers:

Subject matter including determining the amount of use of the selected information or a cost associated therewith.

Informative references

Attention is drawn to the following places, which may be of interest for search:

General electronic commerce system which includes billing	G06Q 20/027,G06Q 20/085,G06Q 20/0855
Video electric signal modification using cryptography via record or coin control	H04N 7/167
Data protection via encryption	G06F 21/00

G06Q 220/123

involving third party for collecting or distributing payments, e.g. clearinghouse

Definition statement

This subclass/group covers:

Subject matter wherein a third party not associated with the actual distribution of the selected data is utilised to gather or disperse payment therefor.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Secure transaction including a third party	G06Q 20/0855
Data protection via encryption	G06F 21/00

G06Q 220/127

Adding plural layers of rights or limitations by other than the original producer

Definition statement

This subclass/group covers:

Subject matter wherein a party other than the originating source places further restriction or proprietary interest on the use of the selected data.

G06Q 220/14

Requiring a supplemental attachment or input, e.g. a dongle, to open

Definition statement

This subclass/group covers:

Subject matter wherein an auxiliary device or signal interacts with the distributed data file to permit usage.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Licensing in general	G06Q 220/18
Data protection via encryption	G06F 21/00

G06Q 220/145

Specific computer ID, e.g. serial number, configuration

Definition statement

This subclass/group covers:

Subject matter wherein the interaction uses a signal that describes or is characteristic of a particular data processing system.

G06Q 220/16

Copy protection or prevention

Definition statement

This subclass/group covers:
Subject matter which prevents rerecording of a distributed data file.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Copy protection or prevention of a video signal	H04N 7/167
Data protection via encryption	G06F 21/00

G06Q 220/165

Having origin or program ID

Definition statement

This subclass/group covers:
Subject matter wherein a copy protected distributed data file is supplemented by a unique identifier of a source of the file or of the file itself.

G06Q 220/18

Licensing

Definition statement

This subclass/group covers:
Subject matter wherein a determination is made that an outside entity has authorised the use of the selection.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Information security in computers or digital processing system	G06F 21/00

G06Q 230/00

Voting or election arrangements

Definition statement

This subclass/group covers:

Subject matter determining the result of an election by multiple participants.

Attention is drawn to the following places, which may be of interest for search:

System which reads sheets bearing hand-coded indicia representative of various categories and provides a total for each category	G07F 13/00
Betting on an outcome of an event, e.g. a race, or an election; totalisators	G07F 17/32

G06Q 240/00

Transportation facility access, e.g. fares, tolls or parking

Definition statement

This subclass/group covers:

Subject matter controlling access to a vehicle or vehicle related facility in response to payment or other precondition for such access.

The term "vehicle related facility" designates a location for which payment for vehicle admission is required.

The reference to "other precondition" is intended to include passenger or baggage inspection.

Informative references

Attention is drawn to the following places, which may be of interest for search:

System processing data for a vehicle seat reservation	G06Q 10/02
Fare registers	G07B 15/00
[Organising, forecasting, or planning] machines	G06Q 10/06
Parking meters	G07F 17/24

G06Q 250/00

Postage metering systems

Definition statement

This subclass/group covers:

Subject matter wherein the data processing or calculating computer comprises means for determining and printing cost required for mailing an article.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Generic weight determining devices utilizing mathematical computing	G01G 19/4143
Franking apparatus	G07B 17/00

G06Q 250/05

using cryptography

Definition statement

This subclass/group covers:

Subject matter wherein a charge for mailing an article is determined, markings representing this charge are affixed to the article, and respective modifications to an account balance are made.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Postage meter system absent cryptography	G06Q 250/00
Electric signal modification with printed copy production	G09C 3/08
Franking apparatus	G07B 17/00

G06Q 250/053

Reloading or recharging

Definition statement

This subclass/group covers:
Subject matter wherein additional funds are provided to the account balance.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Postage meter recharging absent cryptography	G06Q 250/20
Franking apparatus	G07B 17/00

G06Q 250/057

comprising printing details, e.g. verification of marks

Definition statement

This subclass/group covers:
Subject matter wherein particulars of the marking of the article to be mailed are provided.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Postage meter printing absent cryptography	G06Q 250/70
Static presentation processing, e.g. printing	G06F 3/12
Franking apparatus	G07B 17/00

G06Q 250/10

Special services or fees, e.g. discounts, surcharges or adjustments

Definition statement

This subclass/group covers:

Subject matter wherein a basic postage fee is modified to accommodate a particular postage service or condition.

The particular postage service includes, e.g. express mail, certified mail, C.O.D., special delivery, insurance and return receipt.

The condition includes, e.g. discount, surcharge, adjustment, the least costly fee.

A mere recitation of functional inputting means representing special service or charge without a step or procedure to carry out the modification of the fee is excluded from this group.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Postage meter system comprising means for revising postage rate structure	G06Q 250/80
Franking apparatus	G07B 17/00

G06Q 250/20

Recharging

Definition statement

This subclass/group covers:

Subject matter wherein said data processing or calculating computer comprises means for resetting a stored value of credit representing a postage fund available within a postage meter system.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Reloading or recharging in a cryptographic postage metering system	G06Q 250/053
Franking apparatus	G07B 17/00

G06Q 250/30

Record keeping

Definition statement

This subclass/group covers:

Subject matter wherein said data processing or calculating computer comprises means for resetting a stored value of credit representing a postage fund available within a postage meter system.

G06Q 250/40

Data protection

Definition statement

This subclass/group covers:

Subject matter comprising means for preventing postage information from being inadvertently modified or destroyed.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Information security in computers or digital processing system	G06F 21/00
Franking apparatus	G07B 17/00

G06Q 250/50

with specific mail handling means

Definition statement

This subclass/group covers:

Subject matter including details of means for performing a mailing process associated with the article.

Means for performing a mailing process includes, e.g. feeder, conveyor, inserter, sorter, sealer, stacker.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Forming and packing contents unit from plural or different supply sources	B65B
Particular type of conveying system	B65G
Postal sorting	B07C

G06Q 250/60

involving mailed item weight

Definition statement

This subclass/group covers:
Subject matter wherein postage of the article is determined from the weight of the article.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Point of sale terminal or an electronic cash register having a weighing device	G06Q 20/208
Computing means including a weighing device for computing weight and cost of goods	G01G 19/4143
Franking apparatus	G07B 17/00

G06Q 250/70

Specific printing

Definition statement

This subclass/group covers:
Subject matter including details of a printing mechanism or of information to be printed.

The details of information to be printed include, e.g. messages, graphical data, coded data and encrypted information.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Printing detail in a cryptographic postage metering system	G06Q 250/057
Software printing control module	G06Q 250/90
Data processing for presentation on a fixed medium, such as paper	G06F 3/12

G06Q 250/80

Rate updating

Definition statement

This subclass/group covers:
Subject matter comprising means for revising a postage rate structure.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Postage meter system comprising means for modifying a basic postage fee to accommodate a particular postage service or condition, e.g. discount, surcharge, adjustment	G06Q 250/10
Franking apparatus	G07B 17/00

G06Q 250/90

Specialised function performed

Definition statement

This subclass/group covers:
Subject matter wherein the data processing or calculating computer is programmed to carry out a sequence of instructions related to a predetermined task associated with the postage meter system.

Tasks include input and output distribution, interrupt processing, job scheduling, message transmitting.

G06Q 250/905

Display controlling

Definition statement

This subclass/group covers:

Subject matter wherein the sequence of instructions is for visually presenting postage related information to an operator.

Operation for controlling devices solely for producing a "hard copy", e.g. printer, plotter, is excluded from this group.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Postage meter system including details of printing mechanism or of information to be printed	G06Q 250/70
Franking apparatus	G07B 17/00