

CLASS 705, DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION

SECTION I - CLASS DEFINITION

This is the generic class for apparatus and corresponding methods for performing data processing operations, in which there is a significant change in the data or for performing calculation operations wherein the apparatus or method is uniquely designed for or utilized in the practice, administration, or management of an enterprise, or in the processing of financial data.

This class also provides for apparatus and corresponding methods for performing data processing or calculating operations in which a charge for goods or services is determined.

This class additionally provides for subject matter described in the two paragraphs above in combination with cryptographic apparatus or method.

Subclasses 705/300-348 were established prior to complete reclassification of all project documents. Documents that have not yet been reclassified have been placed in 705/1.1. Until reclassification is finished a complete search of 705/300-348 should include a search of 705/1.1. Once the project documents in 705/1.1 have been reclassified they will be moved to the appropriate subclasses and this note will be removed.

SCOPE OF THE CLASS

1. The arrangements in this class are generally used for problems relating to administration of an organization, commodities or financial transactions.

2. Mere designation of an arrangement as a “business machine” or a document as a “business form” or “business chart” without any particular business function will not cause classification in this class or its subclasses.

3. For classification herein, there must be significant claim recitation of the data processing system or calculating computer and only nominal claim recitation of any external art environment. Significantly claimed apparatus external to this class, claimed in combination with apparatus under the class definition, which perform data processing or calculation operations are classified in the class appropriate to the external device unless specifically excluded therefrom.

4. Nominally claimed apparatus external to this class in

combination with apparatus under the class definition is classified in this class unless provided for in the appropriate external class.

5. In view of the nature of the subject matter included herein, consideration of the classification schedule for the diverse art or environment is necessary for proper search.

OTHER CLASSIFICATION SYSTEMS

Each subclass definition may contain an OTHER CLASSIFICATION SYSTEMS listing that is to be used for informational purposes only. These classification listings may change at any time after their publication and are therefore not guaranteed to be current. In addition, the classification listing does not necessarily indicate the sole relationship between the U.S. Patent Classification System and foreign classifications. Even where a single classification is listed for a single U.S. subclass, a one-to-one correlation should not be inferred. As a result, information contained therein is considered to be only a guide to related subject matter.

Types of other classification systems may include:

- IPC⁷, which indicates an International Patent Classification (seventh edition) of the World Intellectual Property Organization (WIPO),
- JPO/FI, which indicates the Japanese Patent Office and its File Index (FI is a subdivision of the IPC with related subject matter) classifications, or
- European Patent Classification (ECLA), which indicates the European Patent Office's classification and also further subdivides the IPC into related subject matter, or
- Derwent, which indicates a classification from the Derwent Classification System.

SECTION II - REFERENCES TO OTHER CLASSES

SEE OR SEARCH CLASS:

- 177, Weighing Scales, subclasses 25.11+ for a computerized scale.
- 186, Merchandising, various subclasses for customer service methods and apparatus in a variety of areas including banking, restaurant and stores.

- 235, Registers, various subclasses for basic machines and associated indicating mechanisms for ascertaining the number of movements of various devices and machines, plus machines made from these basic machines alone (e.g., cash registers, voting machines), and in combination with various perfecting features, such as printers and recording means. In addition, search Class 235 for various data bearing record controlled systems. Search subclasses 375 through 386 for a system having a detail of a record-sensing device in combination with a system utilized for banking, determining credit, maintaining an inventory, access control, vending, voting, time or operations analysis and having no more than a nominal recitation of a computer or data processing arrangement. Search subclasses 7+ for cash register; and subclass 61 for mechanically computing a cost/price ratio. Note that a nominally claimed record or card sensor is considered to be a peripheral of the data processing system.
- 283, Printed Matter, various subclasses for business forms and methods of using such forms.
- 307, Electrical Transmission or Interconnection Systems, various subclasses for generic residual electrical transmission or interconnection systems and miscellaneous circuits.
- 340, Communications: Electrical, various subclasses for residual electrical communication systems, subclasses 5.1-5.92 for communication details including authorization, vending, credit and access control; and see related classes elsewhere; particularly subclasses 5.4-5.42 for credit authorization control, and subclasses 5.9-5.92 for intelligence comparison for commodity controlling (e.g., vending).
- 341, Coded Data Generation or Conversion, various subclasses for electrical pulse and digital code conversion.
- 345, Computer Graphics Processing and Selective Visual Display Systems, subclasses 418 through 475 for data presentation/computer graphics processing; subclasses 581-618 for data presentation processing; and subclasses 1.1-111 for the selective control of two or more light generating or light controlling display elements in accordance with a received image signal.
- 359, Optics: Systems and Elements, subclasses 107+ for an optical computing arrangement.
- 360, Dynamic Magnetic Information Storage or Retrieval, which is an integral part of Class 369 following subclass 18, for record carriers and systems wherein information is stored and retrieved by interaction with a medium and there is relative motion between a medium and a transducer, for example, magnetic disk drive devices and control thereof, per se.
- 365, Static Information Storage and Retrieval, various subclasses for addressable static singular storage elements or plural singular storage elements of the same type.
- 369, Dynamic Information Storage or Retrieval, various subclasses for record carriers and systems wherein information is stored and retrieved by interaction with a medium and there is relative motion between a medium and a transducer.
- 370, Multiplex Communications, various subclasses for generic multiplexing and demultiplexing systems.
- 371, Error Detection/Correction and Fault Detection/Recovery, various subclasses for generic electrical pulse or pulse coded data error detection and correction.
- 375, Pulse or Digital Communications, various subclasses for generic pulse or digital communication systems.
- 377, Electrical Pulse Counters, Pulse Dividers, or Shift Registers: Circuits and Systems, various subclasses for generic circuits for pulse counting.
- 379, Telephonic Communications, various subclasses for two-way electrical communication of intelligible audio information of arbitrary content over a link including an electrical conductor. In addition, search subclasses 111 through 132 for a computer controlled telephone traffic and charge determining arrangement; subclass 284 for a processor controlled central switching arrangement.
- 380, Cryptography, appropriate subclasses for cryptographic apparatus or method in general and foreign art collections FOR 103 through FOR 150 for related foreign patents/nonpatent literature.
- 382, Image Analysis, appropriate subclasses for operations performed on image data with the aim of measuring a characteristic of an image, detecting variations, detecting structures, or transforming the image data, and for procedures for analyzing and categorizing patterns present in image data.

- 434, Education and Demonstration, subclasses 107 through 110, 219+ and 306 for education or demonstration of business or economics, occupations and voting, subclasses 322+ for question or problem eliciting response.
- 463, Amusement Devices: Games, subclasses 1+, when there is a recitation (according to paragraph 3, under Scope of the Class, in the Class Definition of this class (705)) of a method or apparatus for moving or processing information specified as game or contest information, especially subclasses 16+, where game or contest information relates to a chance-type game (i.e., one that involves an award or prize based upon the occurrence of a chance happening or event; e.g., lottery, keno, slot machine, etc.). However, in order for the specified information to be considered significant for placement in Class 463, there must be significant game processing. For example, the mere printing of a selected lottery number is not significant unless there is also included an element of a game for Class 463 (e.g., a determination of whether the number is a winning number, such as by lot matching, a determination of an award or prize value associated with a number, etc.). A “coupon” or price adjustment given to a patron based upon an item purchased or another predetermined or nonrandom criteria is not considered to be a chance event or happening appropriate for Class 463.
- 700, Data Processing: Generic Control Systems or Specific Applications, subclasses 90 through 306 for devices or methods for controlling the processing or manufacturing of, or being responsive to a physical or mechanical condition of, a product or material, and, subclasses 245-264 for robot control.
- 704, Data Processing: Speech Signal Processing, Linguistics, Language Translation, and Audio Compression/Decompression, subclasses 231+ for a speech recognition system.
- 708, Electrical Computers: Arithmetic Processing and Calculating, subclasses 100+ for electrical digital calculating computer combined with diverse art device such as a checkbook or calendar or with inputs or outputs specialized for a particular environment including business.
- 709, Electrical Computers and Digital Processing Systems: Multicomputer Data Transferring or Plural Process Synchronization, appropriate subclasses for multicomputer data transferring.

- 713, Electrical Computers and Digital Processing Systems: Support, subclasses 150 through 194 for cryptographic computer and digital processing system support and foreign art collections FOR 123 and FOR 125 for related foreign patents/nonpatent literature.
- 714, Error Detection/Correction and Fault Detection/Recovery, subclasses 1 through 57 for reliability and availability in a digital data processing system.
- 902, Electronic Funds Transfer, for art collections including a detail of a security measure, an ATM machine, a terminal or an identifier used in an electronic funds transfer.

SECTION III - REFERENCES TO OTHER CLASSIFICATION SYSTEMS

IPC G06F, for electric digital processing.

ECLA G06F, for electric digital data processing.

Derwent T01, for digital computers.

SECTION IV - GLOSSARY

ARRANGEMENT

Either a device or a method of use of a device for performing the indicated process.

CALCULATING OPERATIONS

Arithmetic or some limited logic operations performed upon or with signals representing numbers or values.

COMPUTER

A machine that inputs data, processes data, stores data, and outputs data.

CRYPTOGRAPHY

Secret information storage or communication. This includes equipment or process which (a) conceals or obscures intelligible information by transforming such information so as to make the information unintelligible to a casual or unauthorized recipient, or (b) extracts intelligible information from such a concealed representation, including breaking of unknown codes and messages.

DATA

Representation of information in a coded manner suitable for communication, interpretation, or processing.

DATA PROCESSING

(For the purpose of this class) A systematic operation on data in accordance with a set of rules which results in a significant change in the data.

DEVICE

An assemblage of components at a single location or which may have its several components at geographically distinct locations, i.e., a network.

ENTERPRISE

A conventional business organization, a governmental organization or a nonprofit organization.

FREQUENT USAGE INCENTIVE

A point, mile, etc., which is given to a user for customer loyalty (e.g., purchasing goods, reading advertisements, etc.) to a product, merchant or service.

FREQUENT USAGE REWARD

An award (i.e., prize) given to a user when he/she trades in his/her accumulated points, miles, etc., earned as part of a frequent usage incentive program.

KEY

A formula, word or signal used to define a code in encryption or decryption of the information. Such a signal is often a digital signal having a predetermined or pseudorandom content

PRACTICE

A function directly related to the commercial activity of an enterprise (e.g. the exchange, buying or selling of commodities).

This class additionally provides for subject matter described in the two paragraphs above in combination with cryptographic apparatus or method.

SUBCLASSES**1.1 AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS PRACTICE OR MANAGEMENT ARRANGEMENT:**

This subclass is indented under the class definition. Subject matter wherein an electrical apparatus and its corresponding methods perform the data processing operations, in which there is a significant change in the data or for performing calculation operations wherein the apparatus or method is uniquely designed for or utilized in the practice, administration, or management of an enterprise, or in the processing of financial data.

- (1) Note. The term "arrangement" as used in this and its indented subclasses refers to either a device or to a method of use of a device for performing the indicated process. Further, a device may be an assemblage of components at a single location or may have its several components at geographically distinct locations, i.e., a network.
- (2) Note. The term "enterprise" as used in this and its indented subclasses is intended to include governmental and nonprofit organizations, as well as conventional business organizations.
- (3) Note. The arrangements in this and its indented subclasses are generally used for problems relating to administration of an organization, commodities, financial transactions, or recreation.
- (4) Note. Mere designation of an arrangement as a "business machine" or a document as a "business form" or "business chart" without any particular business function will not cause classification in this or its indented subclasses.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 50, through 79 for business processing using cryptography.
- 500, for a financial or business practice or management arrangement without the use of computers.

SEE OR SEARCH CLASS:

- 235, Registers, subclasses 379 through 383 and 385 for a system having a detail of a record-sensing device in combination with a system utilized for banking, determining credit or maintaining an inventory, and having no more than a nominal recitation of a computer or data processing arrangement. Note that a nominally claimed record or card sensor is considered to be a peripheral of the data processing system.
- 379, Telephonic Communications, 111 through 132 for a computer controlled telephone traffic and charge determining arrangement; subclass 284 for a processor controlled central switching arrangement.
- 463, Amusement Devices: Games, subclass 1.1, when there is a recitation (according to the (3) Note of Section III of the Class 705 Definition) of a method or apparatus for moving or processing information specified as game or contest information, especially subclass 16, where game or contest information relates to a chance-type game (i.e., one that involves an award or prize based upon the occurrence of a chance happening or event; e.g., lottery, keno, slot machine, etc.). However, in order for the specified information to be considered significant for placement in Class 463, there must be significant game processing. For example, the mere printing of a selected lottery number is not significant unless there is also included an element of a game for Class 463 (e.g., a determination of whether the number is a winning number, such as by lot matching, a determination of an award or prize value associated with a number, etc.). A "coupon" or price adjustment given to a patron based upon an item purchased or another predetermined or nonrandom criteria is not considered to be a chance event or happening appropriate for Class 463.

- 700, Data Processing: Generic Control Systems or Specific Applications, subclasses 90 through 306 for a device which either controls the processing of, or is responsive to a physical or mechanical condition of a product or material.
- 707, Data Processing: Database, Data Mining, and File Management or Data Structures, for databases or file management of data per se.

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Health care management (e.g., record management, ICDA billing):

This subclass is indented under subclass 1.1. Subject matter drawn to a computer implemented system or method particularly adapted for a health care management or delivery organization.

- (1) Note. The terms "medical" and "health care" are intended to cover all type of treatment or diagnosis of the human body, such as dentistry, podiatry, pharmaceuticals, etc.
- (2) Note. The term "particularly adapted" refers to having an element peculiar to a health care system. Incidental use of a business arrangement of general utility, in a health care environment will not be classified in this or its indented subclasses.
- (3) Note. Billing systems based on entered medical codes, for example, ICDA codes (International Classification of Diseases Abstracted), are included herein.

OTHER CLASSIFICATION SYSTEMS:

- ECLA G06F 17/60A, for office automation (e.g., groupware, office work in progress, etc.).
 ECLA G06F 17/60T, for spreadsheets.
 ECLA G06F 17/30R, for relational databases.
 ECLA G06F 17/24F, for form filling.
 DERWENT T01-J06A1, for medical information systems.
 DERWENT S05/G02G, for administration and medical records systems.
 DERWENT S05-G02G2, for health care administration.
- 3 Patient record management:**
 This subclass is indented under subclass 2. Subject matter wherein the system processes the records of diagnosis or treatment of a patient.
- (1) Note. Included herein is processing the records of diagnosis or treatment as contrasted to processing information to obtain the diagnosis or treatment, which processing is classified elsewhere.
- OTHER CLASSIFICATION SYSTEMS:
- DERWENT S05-G02G1, for patient's medical records.
- 4 Insurance (e.g., computer implemented system or method for writing insurance policy, processing insurance claim, etc.):**
 This subclass is indented under subclass 1.1. Subject matter drawn to a computer implemented system or method for writing an insurance policy or processing an insurance claim.
- (1) Note. Included herein is a system for administering an insurance backed security, investment or credit card.
- OTHER CLASSIFICATION SYSTEMS:
- ECLA G06F 17/60D, for financial accounting; calculating earned income, interest, insurance premium, and taxes.
 ECLA G06F 17/60D4, for risk analysis, e.g., for insurance, pensions.
- 5 Reservation, check-in, or booking display for reserved space:**
 This subclass is indented under subclass 1.1. Subject matter drawn to a computerized record keeping system for recording allocation of space in advance of use (e.g., airplane, train or concert reservation).
- (1) Note. The term "space" is intended to include seating.
 (2) Note. Such allocation includes airplane, train, or concert seating, as well as hotel room assignment.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
- 13, for a transportation access system not involving advance allocation of a specific space (e.g., fare collection).
 15, for a restaurant system not involving advance allocation of a specific space.
- SEE OR SEARCH CLASS:
- 340, Communications: Electrical, subclasses 4.6 through 4.62 for similar subject matter with no more than nominal data processing.
- OTHER CLASSIFICATION SYSTEMS:
- ECLA G06F 17/60C7, [for organizing, forecasting, or planning] for reservation.
 DERWENT T05-C, for ticket issuing, fare-registering, and franking apparatus
 DERWENT T05-C01, for ticket and receipt issuing.
 DERWENT T05-D01A, with card or badge access.
- 6 Coordination of plural reservations (e.g. plural trip segments, transportation and accommodation, etc.):**
 This subclass is indented under subclass 5. Subject matter wherein the processing system coordinates multiple distinct reservations for a single itinerary.
- (1) Note. The term "multiple distinct reservations" is not intended to include a plurality of similar reservations (e.g., reservations for a plurality of seats).

OTHER CLASSIFICATION SYSTEMS:

ECLA G06F 17/60C8D, [for organizing, forecasting, or planning] of routes, e.g., traveling salesman.

7.11 Operations Research or Analysis:

This subclass is indented under subclass 1. Subject matter drawn to a computerized 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, organizing, directing, or controlling of an enterprise (i.e., a group of one or more people or entities) for the purpose of accomplishing a goal.

- (1) Note. This subject matter is applied to problems that concern understanding, conducting, coordinating or optimizing the operations or activities within an enterprise.
- (2) Note. The operations and activities of the organization are business level operations and activities and are not specifically network or computer operations related.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 348, for business models and charts or workflow with no analysis.
- 14.13, for analysis of discount or incentive effectiveness.
- 14.41, for analysis of advertisement effectiveness.
- 32, for time accounting of employees or customers, i.e., the tabulation of attendance or timed presence of employees or patrons.

SEE OR SEARCH CLASS:

- 235, Registers, subclass 376 for record sensing devices in combination with systems utilized for operations analysis.

- 702, Data Processing: Measuring, Calibrating, or Testing, subclasses 176 through 188 for data processing and calculating measurements and evaluations of operational conditions, performance, time periods, and quantities.
- 703, Data Processing: Structural Design, Modeling Simulation, and Emulation, subclasses 2 through 13 for methods and systems that perform data processing using mathematical expressions associated with a physical process or using models that represent the performance of an electronic system.
- 718, Electrical Computers and Digital Processing Systems: Virtual Machine Task or Process Management or Task Management/Control, appropriate subclasses for subject matter that is specifically network or computer operations related and is not related to the activities that are the business operations of an organization.

OTHER CLASSIFICATION SYSTEMS:

DERWENT T01-J05A2, for administration and management tools including management, resource allocation, business, education, government, marketing and law; also includes decision support, MIS, stock control, and workflow.

7.12 Resource planning, allocation or scheduling for a business operation:

This subclass is indented under subclass 7.11. Subject matter drawn to a computerized 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.

- (1) Note. This subclass 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.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 2, for medical facility management or usage.
- 28, for establishing, maintaining, or updating the enterprise resource of inventory.
- 330, for arranging for the delivery of goods between parties or monitoring the status of delivery.

SEE OR SEARCH CLASS:

- 368, Horology: Time Measuring Systems or Devices, appropriate subclasses for a timing arrangement of general utility.
- 700, Data Processing: Generic Control Systems or Specific Applications, subclasses 95 through 212 for subject matter combined with a step of or structure for resource allocation, product manufacture, or parts assembly.
- 709, Electrical Computer and Digital Processing Systems: Multicomputer Data Transferring, subclasses 223 224, and 226 for observing the operating characteristics or conditions of computers connected in a network or of the network itself and apportioning resources to these computers or networks.
- 718, Electrical Computers and Digital Processing Systems: Virtual Machine Task or Process Management or Task Management/Control, subclasses 1 and 100-105 for machine tasks, process management, administrating job execution, or scheduling multiple tasks based upon priority, resource availability and time constraints in a digital data processing system.

7.13 Scheduling, planning, or task assignment for a person or group:

This subclass is indented under subclass 7.12. Subject matter drawn to a computerized 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 qualifica-

tions or availability, schedules of individuals or groups, or the goal of a specific task.

- (1) Note. The designation of an individual may be either by name or other designation, e.g., position, etc.
- (2) Note. The individual or group may be either internal or external to the organization, such as a current employee, job candidate, or contractor.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 320, for the administration or management of the hiring process.

SEE OR SEARCH CLASS:

- 379, Telephonic Communications, subclasses 265.01 through 266.1 for the assignment of calls to an agent, matching agents to jobs or calls based on job or call requirements and agent skill, and determining the number of agents needed to meet customer demand.
- 715, Data Processing: Presentation Processing of Document, Operator Interface Processing, and Screen Saver Display Processing, subclasses 700, 751, 753, and 963 for operator interfaces where displays are used to join groups of users to complete tasks and link collaborative sites and displays which are used to calendar or schedule tasks to times or dates.
- 717, Data Processing: Software Development, Installation, and Management, subclasses 101 through 130 for planning, organizing, staffing, directing, and controlling a software development project.

7.14 Skill based matching of a person or a group to a task:

This subclass is indented under subclass 7.13. Subject matter drawn to a computerized 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.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

320, for the administration or management of the hiring process.

7.42, for performance analysis of an employee.

7.15 Status monitoring or status determination for a person or group:

This subclass is indented under subclass 7.13. Subject matter drawn to a computerized 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.

7.16 Schedule adjustment for a person or group:

This subclass is indented under subclass 7.13. Subject matter drawn to a computerized 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.

(1) Note. 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.

(2) Note. 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.

7.17 Staff planning in a project environment:

This subclass is indented under subclass 7.13. subclass is indented Subject matter drawn to a computerized 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.

(1) Note. For classification herein, this subclass requires a process, method, system, apparatus, program, etc., that is associ-

ated with a project, e.g., establishing of goals, deliverables, roles, calendar schedules or considered constraints, such as cost or time, etc.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

7.23, for resource (i.e., money or equipment) planning in a project environment.

301, for routing or approving or projects between workforce units or for project management with no research or analysis.

7.18 Calendar-based scheduling for a person or group:

This subclass is indented under subclass 7.13. Subject matter drawn to a computerized 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.

(1) Note. Calendar based systems that allow the client or the business entity to schedule appointments in a place of business, are classified herein.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

5, for computerized record keeping for reservations, check-in, or booking of space in advance.

7.16, for staff rescheduling.

330, for arranging for the delivery of goods between parties or monitoring the status of delivery.

7.19 Meeting or appointment:

This subclass is indented under subclass 7.18. Subject matter drawn to a computerized calendar-based operation used by an individual or group for determining availability, planning or assigning a time and optionally a place for meetings.

(1) Note. Calendar based personal computer devices that have means to schedule a meeting, such as processor based time management system, without an associ-

ated business application, are classified herein.

7.21 Task assignment:

This subclass is indented under subclass 7.18. Subject matter drawn to a computerized 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.

7.22 Adjustment or analysis of established resource schedule (e.g., resource or task leveling, dynamic rescheduling, etc.):

This subclass is indented under subclass 7.12. Subject matter drawn to a computerized 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.

- (1) Note. 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.
- (2) Note. 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.

7.23 Resource planning in a project environment:

This subclass is indented under subclass 7.12. Subject matter drawn to a computerized arrangement for organizing 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.

- (1) Note. For classification herein, this subclass requires a process, method, system, apparatus, program, etc., that is associated with a project, e.g., establishing of goals, deliverables, roles, calendar

schedules or considered constraints, such as cost or time, etc.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 7.17, for staff planning in a project environment.
- 301, for routing or approving or projects between workforce units or for project management with no research and analysis.

7.24 Calendaring for a resource:

This subclass is indented under subclass 7.12. Subject matter drawn to a computerized arrangement for a calendar-based means which facilitates time planning associated with business resources, operations, production planning, or other administrative activities.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 7.22, for rescheduling associated with resources.
- 7.18, for calendar based systems for scheduling a person or group to related tasks, meetings, etc.
- 5, for computerized record keeping for reservations, check-in, or booking of space in advance.
- 330, for arranging for the delivery of goods between parties or monitoring the status of delivery.

7.25 Needs based resource requirements planning and analysis:

This subclass is indented under subclass 7.12. Subject matter drawn to a computerized arrangement for the evaluation or determination of resources required by the organization to satisfy an internal or market driven need.

- (1) Note. 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.
- (2) Note. Market research or market demand prediction which does not also involve

resource planning or resource adjustment is classified elsewhere.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 7.29, for market data gathering, analysis, or modeling.
7.31, for market prediction or demand forecasting.

7.26 Sequencing of tasks or work:

This subclass is indented under subclass 7.12. Subject matter drawn to a computerized 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 like network analysis (e.g., shortest path, minimum spanning trees, maximum flow problems, precedence graphs, job dispatch prioritization, minimum cost flow problems, etc.) to determine the most optimal sequence or ordering of entities or resources.

- (1) Note. 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.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 7.13, for task assignment to a person or group.
301, for routing or approval of work between workforce units.
338, for determining routing of goods in an existing delivery system or to identify the appropriate delivery route.
348, for business modeling with minimal research or analysis.

SEE OR SEARCH CLASS:

- 707, Data Processing: Database and File Management or Data Structures, subclass 1 for database or file accessing.
709, Electrical Computer and Digital Processing Systems: Multicomputer Data Transferring, subclass 242 and 243 for multi-computer data transferring.
715, Data Processing: Presentation Processing of Document, Operator Inter-

face Processing, and Screen Saver Display Processing, subclass 705, for help presentation to a user.

- 718, Electrical Computers and Digital Processing Systems: Virtual Machine Task or Process Management or Task Management/Control, subclass 100 for task management and for means or steps for administering processor or job execution in a digital processing environment.

7.27 Workflow analysis:

This subclass is indented under subclass 7.11. Subject matter drawn to a computerized arrangement for evaluation of a model or other abstract representation of real work in order to understand or optimize a work process.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 301, for routing or approval of work between workforce units.
348, business models or charts with no operational analysis.

7.28 Risk analysis:

This subclass is indented under subclass 7.11. Subject matter drawn to a computerized arrangement for applying techniques to identify and analyze or assess factors that may adversely effect the success of a business undertaking or the achievement of a business goal.

- (1) Note. 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.
(2) Note. Evaluation of risk factors with respect to credit, loan, or other financial matter are not classified herein.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 4, for risk associated with insurance.
38, for credit or other financial risk.

7.29 Market data gathering, market analysis or market modeling:

This subclass is indented under subclass 7.11. Subject matter drawn to a computerized arrangement for collecting, organizing 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.

- (1) Note. This subclass includes formulating strategies or representations related to the market, which are used for analysis and planning.
- (2) Note. Market data can include various factors, trends, or relationships reflecting customer behavior, competitor behavior, market influences, or market activity.
- (3) Note. 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, etc.).
- (4) Note. 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.
- (5) Note. 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.
- (6) Note. Analysis of coupon, incentive, or ad campaign effectiveness, per se, is classified in Class 705 subclass 14.13 or subclass 14.41.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 7.12, for market research related to resource optimization or planning.
- 7.25, for market demand data, such as order data used to plan resource allocation to meet the demand.
- 14.13, for analysis of discount or incentive effectiveness.

- 14.41, for analysis of advertisement effectiveness.
- 26, for inspection, selection, or purchase of items, using technology-based commerce.
- 35, for financial markets and trading.
- 400, for determining charges for goods or services.

SEE OR SEARCH CLASS:

- 707, Data Processing: Database and File Management or Data Structure, subclass 100 and 104.1 for the general collection of data into a database schema or structure for applying database schemas or data structures to commercial and scientific fields.
- 715, Data Processing: Presentation Processing of Document, Operator Interface Processing, and Screen Saver Display Processing, subclass 963 for an operator interface directed to commercial tasks like marketing or sales activity.

7.31 Market prediction or demand forecasting:

This subclass is indented under subclass 7.29. Subject matter drawn to a computerized 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.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 35, for predicting stock prices and financial portfolios (e.g., stock market, transaction fraud, banking, investment, and credit analysis, etc.).
- 400, for calculating price, cost, or charges.

SEE OR SEARCH CLASS:

- 700, Data Processing: Generic Control Systems or Specific Applications, subclass 291 for energy consumption or demand prediction or estimation of power or distribution systems.

7.32 Market survey or market poll:

This subclass is indented under subclass 7.29. Subject matter drawn to a computerized arrangement for collecting or analyzing data elicited from a participant or user (e.g., a questionnaire, etc.).

7.33 Price or determination based on market factor:

This subclass is indented under subclass 7.29. Subject matter drawn to a computerized arrangement for analysis of the market, based on a breakdown of that market into homogeneous groups (e.g., by demographic, geographic, psychographic, or behavioral characteristics, etc.).

7.34 Location or geographical consideration:

This subclass is indented under subclass 7.33. Subject matter drawn to a computerized arrangement for analysis of a market based on regional factors.

- (1) Note. This subclass 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.

7.35 Price or cost determination based on market factor:

This subclass is indented under subclass 7.29. Subject matter drawn to a computerized arrangement for analyzing market data which influence demand for a product or service in order to determine how to value a product or service.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 400, for data processing or calculating computer that is designed for or utilized to calculate price, cost, or charges.

7.36 Strategic management and analysis:

This subclass is indented under subclass 7.11. Subject matter drawn to a computerized 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.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 301, for routing or approval of work between workforce units.
348, for business models or charts with no operational analysis.

7.37 Prediction of business process outcome or impact based on a proposed change:

This subclass is indented under subclass 7.36. Subject matter drawn to a computerized 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 like change impact analysis or return on investment.

- (1) Note. This subclass includes subject matter where analysis occurs, even when no of current or proposed plans, processes or practices are implemented in the operation of an enterprise.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 400, for calculating price, cost, or charges.

7.38 Performance analysis:

This subclass is indented under subclass 7.11. Subject matter drawn to a computerized arrangement which evaluates the efficiency, productivity, or performance of an employee or other entity employed by an enterprise, or an organizational operation.

- (1) Note. 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.

- (2) Note. The evaluations may include recommendations for performance improvement.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 317, for business certification or verification of status of an entity's qualifications of a business requirement.
320, for the administration or management of the hiring process.
347, for ranking or collecting reviews regarding business entities.

SEE OR SEARCH CLASS:

- 379, Telephonic Communications, subclass 265.06 for monitoring the performance of an agent.
700, Data Processing: Generic Control Systems or Specific Applications, subclass 111 for data processing systems that analyze statistical information based on employee performance or manufacturing area.
702, Data Processing: Measuring, Calibrating, or Testing, subclass 182 for means for monitoring or determining the performance or effectiveness of an operation of a process or device.
703, Data Processing: Structural Design, Modeling Simulation, and Emulation, subclasses 6 through 13 for methods and systems that measure the performance of a system or device through modeling.

7.39 Score carding, benchmarking, or key performance indicator analysis:

This subclass is indented under subclass 7.38. Subject matter drawn to a computerized 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.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 7.29, for market research used in scorecarding, benchmarking, or key performance indicator analysis.

7.41 Quality analysis or management:

This subclass is indented under subclass 7.38. Subject matter drawn to a computerized arrangement for applying systematic and scientific evaluation related to standards set or required for various business practices, operations, processes, incoming materials, products or services.

- (1) Note. 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.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 7.29, for 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.
347, for ranking or collecting reviews regarding business entities or the products or the services of business entities.

SEE OR SEARCH CLASS:

- 702, Data Processing: Measuring, Calibrating, or Testing, subclass 81 for gathering data, usually on a manufacturing or assembly line, to determine the quality of a product.

OTHER CLASSIFICATION SYSTEMS:

- ECLA G06F 15/46, for optimization and quality control during production.

7.42 Performance of employee with respect to a job function:

This subclass is indented under subclass 7.38. Subject matter drawn to a computerized arrangement for evaluating individual or group performance with respect to an assigned job or task.

- (1) Note. This area includes applications that include evaluations such as end of year reviews.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 32, for a data processing system limited to determining time or attendance.
320, for record keeping with respect to employees.

12 Voting or election arrangement:

This subclass is indented under subclass 1.1. Subject matter determining the result of an election by multiple participants.

SEE OR SEARCH CLASS:

- 235, Registers, subclass 386 for a system which reads sheets bearing hand-coded indicia representative of various categories and provides a total for each category.

OTHER CLASSIFICATION SYSTEMS:

- ECLA G06F 17/60R, for betting on an outcome of an event, e.g., a race, an election, etc.; totalisators.
DERWENT T05-F, for voting and lottery apparatus, generating random numbers.

13 Transportation facility access (e.g., fare, toll, parking):

This subclass is indented under subclass 1.1. Subject matter controlling access to a vehicle or vehicle related facility in response to payment or other precondition for such access.

- (1) Note. The term “vehicle related facility” designates a location for which payment for vehicle admission is required.

- (1) Note. The reference to “other precondition” is intended to include passenger or baggage inspection.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 5, for a system processing data for a vehicle seat reservation.

SEE OR SEARCH CLASS:

- 235, Registers, subclasses 33+ for a mechanical fare register.

OTHER CLASSIFICATION SYSTEMS:

- ECLA G06F 17/60C, [for organizing, forecasting, or planning] machines.
DERWENT T05-D02, [for individual entry or exit registers] for vehicles.
DERWENT T05-C01, for ticket or receipt issuing.
DERWENT T05-C03, for fare registering.
DERWENT T07-F, for parking control systems.

14.1 Discount or incentive (e.g., coupon, rebate, offer, upsale, etc.):

This subclass is indented under subclass 1.1. 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.

- (1) Note. The recitation of a discount or incentive in name only (e.g., “coupon”, “rebate”, etc.) is insufficient to classify a document in this subclass.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 14.4, for a display or advertising system.

SEE OR SEARCH CLASS:

- 725, Interactive Video Distribution Systems, subclass 23 for a system for awarding a coupon, token, or credit which can be used to view a video program.

OTHER CLASSIFICATION SYSTEMS:

ECLA G06Q 30/00A, for promotions, coupons, services, and market research.

14.11 Trade or exchange of a good or service for an incentive:

This subclass is indented under subclass 14.1. 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.

- (1) Note. 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.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 14.16, for a referral award system.
14.27, for a frequent usage incentive system (e.g., frequent flyer miles program, point system, etc.).

14.12 Incentive awarded or redeemed in connection with the playing of a video game:

This subclass is indented under subclass 14.1. 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.

- (1) Note. The term "video entertainment" is intended to cover only video games.

SEE OR SEARCH CLASS:

- 463, Amusement Devices: Games, subclass 25 for 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.

14.13 Determining discount or incentive effectiveness:

This subclass is indented under subclass 14.1. 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.

14.14 Chance discount or incentive:

This subclass is indented under subclass 14.1. Subject matter in which the incentive is the opportunity to participate in a random event (e.g., sweepstakes, jackpots, games, lotteries, etc.) to obtain a reward or prize (e.g., a discount).

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 14.12, for an incentive or award obtained through participation in an electronic game.
14.2, for evaluation of answers or responses from a participant to possibly obtain an incentive or award.

SEE OR SEARCH CLASS:

- 273, Amusement Devices: Games, subclasses 236 through 291 for board games, pieces, or boards, per se, for a contest of skill or chance.
283, Printed Matter, subclasses 72 through 114 for printed matter having revealable concealed information, particularly subclass 94 for printed matter (e.g., a lottery ticket, etc.) with superposed layers, and subclass 903 for a lottery ticket art collection.
463, Amusement Devices: Games, subclasses 1 through 47, when there is a recitation (according to the (3) Note of the Class 705 Class Definition) of a method or apparatus for moving or processing information specified as game or contest information, especially subclasses 16-22, where game or contest information relates to a chance-type game (i.e., one that involves an award or prize based upon the occurrence of a chance happening or event; e.g., lottery, keno, slot machine, etc.). However, in order for the specified information to be considered significant for placement in Class 463, there must be significant game processing. For example, the mere printing of a selected lottery number is not significant unless there is also included an element of a game for Class 463 (e.g., a determination of

whether the number is a winning number, such as by lot matching, a determination of an award or prize value associated with a number, etc.). A “coupon” or price adjustment given to a patron based upon an item purchased or other predetermined or non-random criteria is not considered to be a chance event or happening appropriate for Class 463.

14.15 Consumer transaction fee:

This subclass is indented under subclass 14.1. Subject matter wherein a payment from an individual is required to participate in a program to gain an incentive or discount award.

14.16 Referral award system:

This subclass is indented under subclass 14.1. Subject matter wherein an individual is given an incentive after meeting a predetermined criterion of directing (e.g., inviting, referring, etc.) an individual to a business, program, or product, or service.

14.17 Including financial account:

This subclass is indented under subclass 14.1. Subject matter wherein the incentive reward is in the form of money or credit applied to a users monetary account.

- (1) Note. The term “account” is defined as a formal business arrangement providing for regular dealings or services.

14.18 Investment account:

This subclass is indented under subclass 14.17. Subject matter wherein an individual has the opportunity to invest a reward provided by the merchant (e.g., money market, stocks etc.) in order to realize a financial gain.

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

This subclass is indented under subclass 14.1. 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.

- (1) Note. This input is often acquired by giving the individual a quiz or having the individual fill out a questionnaire or survey.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 14.12, for the chance to obtain a discount or incentive by playing a video game.
14.36, for an individual receiving a discount or incentive for enrolling in a program sponsored by, or for identifying themselves to, a merchant.

14.2 Based on score:

This subclass is indented under subclass 14.19. Subject matter wherein an incentive or award is based on an evaluation or grade of a participants answer or response.

14.21 Based on funds or budget:

This subclass is indented under subclass 14.1. 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.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 14.48, for a promotion provided based on budget or funds.

14.22 Re-usable coupon:

This subclass is indented under subclass 14.1. Subject matter drawn to an offer which can be used more than once to receive a discount or incentive.

14.23 During E-commerce (i.e., online transaction):

This subclass is indented under subclass 14.1. Subject matter in which a discount or incentive is provided or redeemed during the course of an electronic transaction.

- (1) Note. 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.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

14.51, for a promotion provided during an electronic transaction.

14.24 Based on inventory:

This subclass is indented under subclass 14.1. Subject matter wherein a discount or incentive is provided based on a tracking or counting of goods or services available or sold by merchant.

14.25 Based on user history:

This subclass is indented under subclass 14.1. 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.

- (1) Note. User history may be obtained through cookies, discount cards, user search, etc.

14.26 Avoiding fraud:

This subclass is indented under subclass 14.1. 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.

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

SEE OR SEARCH THIS CLASS, SUB-CLASS:

50 through 79, for details of cryptographic apparatus or methods uniquely designed for, or utilized in the practice, administration, or management of an enterprise, the processing of financial data, or where a charge for goods or services is determined.

SEE OR SEARCH CLASS:

283, Printed Matter, subclasses 72 through 114 for printed matter having revealable concealed information, fraud preventer or detector, use preventer or detector, or identifier.

14.27 Frequent usage incentive system (e.g., frequent flyer miles program, point system, etc.):

This subclass is indented under subclass 14.1. Subject matter wherein an individual is given a frequent usage incentive after meeting predetermined criteria for demonstrating loyalty towards a product, merchant or service.

14.28 Frequent usage incentive value reconciliation between diverse systems:

This subclass is indented under subclass 14.27. 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.

14.29 On-line clearing house:

This subclass is indented under subclass 14.28. Subject matter wherein a computer system on a network is designed for the reconciliation and trading of frequent usage incentive points or miles.

14.3 Multi-merchant loyalty card system:

This subclass is indented under subclass 14.27. Subject matter wherein operators of separate retail establishments each operate their own frequent usage incentive system under a single card which certifies customer membership.

14.31 Awarding of a frequent usage incentive independent of the monetary value of a good or service purchased, or distance traveled:

This subclass is indented under subclass 14.27. Subject matter wherein a frequent usage incentive (e.g., point, mile, etc.) is awarded on the basis of criteria which are not a function of the monetary amount of merchandise or services bought, or distance traversed.

- (1) Note. A frequent usage incentive based on the number of transactions, rather than the monetary amount of transac-

tions, or the number of trips, rather than the distance traveled, is classified here.

14.32 Frequent usage reward other than merchandise, cash, or travel:

This subclass is indented under subclass 14.27. 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.

- (1) Note. For purposes of this subclass definition, cash is paper money, coins or checks.
- (2) Note. Gift certificates and gift cards are not considered cash and are therefore included in this subclass.

14.33 Method of redeeming a frequent usage reward:

This subclass is indented under subclass 14.27. Subject matter which describes the manner in which a user selects or receives their frequent usage reward.

14.34 Rebate after completed purchase (i.e., post transaction award):

This subclass is indented under subclass 14.1. Subject matter wherein, at some time after the purchase of merchandise or services, part of the purchase price paid is returned to the purchaser.

14.35 Including timing (i.e., limited awarding or usage time constraint):

This subclass is indented under subclass 14.1. Subject matter in which a discount or incentive is provided or redeemed within limited time constraints.

- (1) Note. 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, etc.

14.36 Incentive or award received by requiring registration or ID from user:

This subclass is indented under subclass 14.1. Subject matter in which an individual receives a discount or incentive for enrolling in a pro-

gram sponsored by or for identifying themselves to a merchant.

14.37 At kiosk:

This subclass is indented under subclass 14.1. Subject matter wherein a discount or incentive is provided or redeemed at a small standalone structure.

SEE OR SEARCH THIS CLASS, SUBCLASS:

14.23, for a discount or incentive provided during an online transaction.

14.38 At POS (i.e., point-of-sale):

This subclass is indented under subclass 14.1. Subject matter in which a discount or incentive is provided or redeemed at a place where transfer of goods or services is executed.

- (1) Note A coupon dispensing or redeeming electronic cash register is classified in this subclass.

SEE OR SEARCH THIS CLASS, SUBCLASS:

14.23, for a discount or incentive provided during an online transaction.

14.39 Online discount or incentive:

This subclass is indented under subclass 14.1. Subject matter wherein a discount or incentive is provided through the use of the World Wide Web.

14.4 Advertisement:

This subclass is indented under subclass 1. 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.

SEE OR SEARCH CLASS:

725, Interactive Video Distribution Systems, subclass 32 for 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.

14.41 Determination of advertisement effectiveness:

This subclass is indented under subclass 14.1. 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.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

14.72, for development of an advertisement.

14.42 Comparative campaigns:

This subclass is indented under subclass 14.41. Subject matter drawn to a sidebyside examination of two or more promotions in order to determine which one attains the highest degree of intended or expected results.

14.43 Optimization:

This subclass is indented under subclass 14.41. 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.

14.44 Survey:

This subclass is indented under subclass 14.41. Subject matter drawn to the collection of public opinion about a promotion in order to determine the effectiveness of a promotion.

14.45 Traffic:

This subclass is indented under subclass 14.41. Subject matter wherein the commercial activity generated by a promotion is analyzed.

14.46 Calculate past, present, or future revenue:

This subclass is indented under subclass 14.4. Subject matter drawn to a determination of monetary gain from a promotion at a point of time.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

14.69, for determination of compensation or billing for promotional goods or services.

14.47 Avoiding fraud:

This subclass is indented under subclass 14.4. Subject matter drawn to the prevention of unfair dishonest or deceitful action by an indi-

vidual to acquire or obtain a better promotion for goods or services.

(1) This subclass provides for methods of fraud prevention in combination with a nominal recitation of cryptographic methods (e.g., encrypting scrambling etc.) or other means such as barcodes watermarks etc which may be used to identify the authenticity of a promotion.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

50 through 79, for details of cryptographic apparatus or methods uniquely designed for or utilized in the practice administration or management of an enterprise the processing of financial data or where a charge for goods or services is determined.

SEE OR SEARCH CLASS:

283, Printed Matter, subclasses 72 through 114 for printed matter having revealable concealed information fraud preventer or detector use preventer or detector or identifier.

14.48 Based upon budget or funds:

This subclass is indented under subclass 14.4. Subject matter wherein a promotion is provided to the public based on a monetary limit or cap established by a merchant.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

14.21, for a discount or incentive provided based on a budget or funds.

14.49 Targeted advertisement:

This subclass is indented under subclass 14.4. Subject matter wherein a promotion is directed at or to an individual or individuals based on predetermined criteria.

14.5 Based on event or environment (e.g., weather festival etc.):

This subclass is indented under subclass 14.49. Subject matter in which an organized activity or atmospheric or climatic condition is used in order to promote goods or services.

14.51 During E-commerce (i.e., online transaction):

This subclass is indented under subclass 14.49. Subject matter in which a promotion is provided during the course of an electronic transaction.

- (1) Note. 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.

SEE OR SEARCH THIS CLASS, SUBCLASS:

14.23, for a discount or incentive provided during an electronic transaction.

14.52 Based on statistics:

This subclass is indented under subclass 14.49. 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.

- (1) Note. The term “numerical facts” is intended to include any logistic or mathematical conclusion or process that helps to determine probabilities or theories of behavior or conditions of state of a predetermined group.

14.53 Based on user history:

This subclass is indented under subclass 14.49. Subject matter in which a past purchase or interest of an individual is considered to provide a present or future promotion to the individual.

- (1) Note. User history may be obtained through cookies discount cards etc.

14.54 User search:

This subclass is indented under subclass 14.49. Subject matter wherein an individual uses a computer system looking for some information and a promotion is presented due to the entered key word.

14.55 User requested:

This subclass is indented under subclass 14.49. Subject matter wherein a user selects a promotion.

14.56 Registration:

This subclass is indented under subclass 14.55. Subject matter in which an individual exchanges information with a merchant in order to receive future promotions.

14.57 Based on store location:

This subclass is indented under subclass 14.49. Subject matter wherein the position of a store is used to determine a type of promotion to present to an individual.

14.58 Based on user location:

This subclass is indented under subclass 14.49. Subject matter wherein the position of an individual is used to determine a type of promotion to present.

- (1) Note This subclass is not intended to cover any location wherein the individual is in a vehicle.

SEE OR SEARCH THIS CLASS, SUBCLASS:

14.63, for a targeted advertisement directed to an individual inside a vehicle.

14.59 During computer stand by mode:

This subclass is indented under subclass 14.49. Subject matter wherein a promotion is displayed on a computer while the computer is in an idle or hibernation mode.

14.6 Based upon Internet or web site rating:

This subclass is indented under subclass 14.49. Subject matter wherein a promotion is presented on at least one world wide page based on quality performance or weighting factor of the world wide page.

14.61 Based upon schedule:

This subclass is indented under subclass 14.49. Subject matter drawn to the specific time or day that a promotion is going to be available or exposed to the public.

- SEE OR SEARCH THIS CLASS, SUB-CLASS:
14.68, for 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.
- 14.62 Vehicular advertisement:**
This subclass is indented under subclass 14.49. 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.
- 14.63 Based on the position of the vehicle:**
This subclass is indented under subclass 14.62. Subject matter in which the location of the vehicle is used to determine a type of promotion to present.
- 14.64 Wireless device:**
This subclass is indented under subclass 14.49. Subject matter in which a promotion is transmitted to or received on an electronic contrivance which uses radio waves to transmit or receive data.
- 14.65 At POS (i.e., point-of-sale):**
This subclass is indented under subclass 14.49. Subject matter wherein a promotion is used to target individuals at a place where the exchange of goods or services for money is executed.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
14.51, for a promotion provided during an electronic transaction.
- 14.66 Based on user profile or attribute:**
This subclass is indented under subclass 14.49. Subject matter wherein a set of data or a characteristic of an individual is used to increase interest in a promotion.
- 14.67 Personalized advertisement:**
This subclass is indented under subclass 14.66. Subject matter wherein at least one personal characteristic (e.g., name, birthday, age, phone number, or address, etc.) of an individual is added to a promotion.
- 14.68 Period of advertisement exposure:**
This subclass is indented under subclass 14.4. 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.
- 14.69 Fee for advertisement:**
This subclass is indented under subclass 14.4. Subject matter drawn to compensation or billing for the promotion of a good or a service.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
14.46, for a determination of monetary gain used to make a decision as to whether a promotion should be published or released.
- 14.7 Split fee:**
This subclass is indented under subclass 14.69. Subject matter in which a compensation or billing for promotional goods or services is divided between two or more parties.
- 14.71 Auction:**
This subclass is indented under subclass 14.69. Subject matter drawn to a sale at which promotions for a good or service are sold to the highest bidder.
- 14.72 Advertisement creation:**
This subclass is indented under subclass 14.4. Subject matter drawn to the design development of a promotion.
- 14.73 Online advertisement:**
This subclass is indented under subclass 14.4. Subject matter wherein a promotion is presented on the World Wide Web.
- 15 Restaurant or bar:**
This subclass is indented under subclass 1.1. Subject matter particularly designed for use in an establishment serving food or drink to buyers.
- (1) Note. Classification in this subclass 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 subclass.

SEE OR SEARCH CLASS:

186, Merchandising, subclasses 38+ for a dining room arrangement absent any significant data processing.

16 Including point of sale terminal or electronic cash register:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for including a mechanism for effecting a transaction and determining the amount of a sale which may also be a terminal in a system.

- (1) Note. The mechanism for effecting a transaction may include a mechanism for handling cash, or debiting an account or prepaid card.
- (2) Note. The sale may include a plurality of goods at different prices.

SEE OR SEARCH THIS CLASS, SUBCLASS:

14.23, for an automated cash register system having a promotional feature (e.g., coupon dispensing, etc.) used in E-commerce (e.g., during an on-line transaction).

14.28, for an automated cash register system having an award or promotional feature (e.g., coupon dispensing, etc.) used at a point of sale.

64, through 79 for cryptographic secure transaction.

SEE OR SEARCH CLASS:

186, Merchandising, for a general check-out arrangement.

235, Registers, subclasses 7+ for a mechanical cash register; subclasses 2+ for a mechanical cash register with a recorder.

377, Electrical Pulse Counters, Pulse Dividers, or Shift Registers: Circuits and Systems, subclass 14 for an electrical register for registering counts for different monetary amounts.

902, Electronic Funds Transfer, subcollection 22 for a cross-reference art collection of disclosures of a point of sale

terminal absent significant claimed data processing.

463, Amusement Devices: Games, subclasses 1+, when there is a recitation (according to the (3) Note of the Class 705 Class Definition) of a method or apparatus for moving or processing information specified as game or contest information, especially subclasses 16+, where game or contest information relates to a chance-type game (i.e., one that involves an award or prize based upon the occurrence of a chance happening or event; e.g., lottery, keno, slot machine, etc.). However, in order for the specified information to be considered significant for placement in Class 463, there must be significant game processing. For example, the mere printing of a selected lottery number is not significant unless there is also included an element of a game for Class 463 (e.g., a determination of whether the number is a winning number, such as by lot matching, a determination of an award or prize value associated with a number, etc.). A "coupon" or price adjustment given to a patron based upon an item purchased or another predetermined or nonrandom criteria is not considered to be a chance event or happening appropriate for Class 463.

OTHER CLASSIFICATION SYSTEMS:

ECLA G06F 17/60B, for data processing in a buying-selling transaction.

ECLA G06F 17/60B4, for exchange business, e.g., quotations or sales transactions of stock or other commodities

ECLA H04L 12/18B, for stock quotation systems.

DERWENT T05-L, for point-of-sale equipment, EFT, and other currency handling systems.

DERWENT T05-L01, for point-of-sale equipment.

DERWENT T05-L01A, for cash register.

DERWENT T05-L01X, for other point-of-sale equipment or systems.

17 Having interface for record bearing medium or carrier for electronic funds transfer or payment credit:

This subclass is indented under subclass 16. Subject matter further including an arrangement for reading a customer associated payment effecting data bearing record or carrier.

- (1) Note. Such a data bearing record is intended to include a credit card, debit card, or a value bearing ticket.

SEE OR SEARCH THIS CLASS, SUBCLASS:

65, through 69 for cryptographic secure transaction including intelligent token.

SEE OR SEARCH CLASS:

235, Registers, subclasses 375+ for a cash register with a detail of record sensing control absent significant data processing.

OTHER CLASSIFICATION SYSTEMS:

DERWENT T05-L01B, for card reader.
DERWENT T05-L01C, for product code reader.
DERWENT T05-L02, for electronic funds transfer.
DERWENT T04-K02, [for smart cards] reading or writing aspects.

18 Having security or user identification provision (password entry, etc.):

This subclass is indented under subclass 16. Subject matter having an arrangement to either prevent unauthorized use of, or access to, the cash register; or to identify the user of the cash register.

SEE OR SEARCH THIS CLASS, SUBCLASS:

44, for a funds transfer system requiring authorization or authentication.

SEE OR SEARCH CLASS:

463, Amusement Devices: Games, subclasses 1+, when there is a recitation (according to the (3) Note of Section III of the Class 705 Definition) of a

method or apparatus for moving or processing information specified as game or contest information, especially subclass 29 for access or authorization to enter or select a game.

713, Electrical Computers and Digital Processing Systems: Support, appropriate subclasses and particularly subclasses 182 through 186 for system access control based on cryptographic user identification.

726, Information Security, subclasses 1 through 36 for information security in computers or digital processing system.

OTHER CLASSIFICATION SYSTEMS:

DERWENT T05-L03C, for security and control.

DERWENT T05-L03C5, for security system aspects.

19 Tax processing:

This subclass is indented under subclass 16. Subject matter in which the sales terminal system computes tax on the transaction.

SEE OR SEARCH THIS CLASS, SUBCLASS:

31, for a tax calculation or submission system other than a part of a cash register or a sales terminal.

OTHER CLASSIFICATION SYSTEMS:

ECLA G06F 17/60D, for financial accounting; calculating earned income, interest, insurance, premium, taxes.

20 Price look-up processing (e.g., updating):

This subclass is indented under subclass 16. 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.

21 Interconnection or interaction of plural electronic cash registers(ECRs) or to host computer (e.g., network detail, transfer of

information from host to ECR or from ECR to ECR, etc.):

This subclass is indented under subclass 16. Subject matter wherein two or more spaced apart electronic cash registers (ECRs) are connected for cooperation therebetween; or a connection to an ECR is connected for cooperation with a host computer spaced apart therefrom.

- (1) Note. The ECR's are most often connected in a network configuration.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 39, for similar a similar network for electronic funds transfer not claiming an electronic cash register or point of sale terminal.

SEE OR SEARCH CLASS:

- 709, Electrical Computers and Digital Processing Systems: Multicomputer Data Transferring or Plural Processor Synchronization, appropriate subclasses for a plural computer network of general utility.

OTHER CLASSIFICATION SYSTEMS:

- ECLA G06F 17/60B6, for centrally controlled vending systems.
ECLA G06F 17/60C, [for organizing, forecasting] plurality of machines.
DERWENT T05-L01D, for data transfer and network aspects.

22 Inventory monitoring:

This subclass is indented under subclass 16. Subject matter wherein the cash register includes an arrangement for establishing, maintaining, or updating a record of a store of goods.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 28, for an automated inventory management organization not combined with a cash register or sales terminal.

OTHER CLASSIFICATION SYSTEMS:

ECLA G06F 17/60C4, for inventory purposes; for order filing.

ECLA G06F 17/60C5, for record storage, loading, unloading or distribution of goods or materials.

DERWENT T05-L01C, for product code reader for both check out and inventory purposes.

23 Input by product or record sensing (weighing, scanner processing):

This subclass is indented under subclass 16. Subject matter the sales information is input by sensing a property of the product being purchased or a record attached thereto.

SEE OR SEARCH CLASS:

- 177, Weighing Scales, subclass 25.15 for a computerized weighing scale which also computes price.
235, Registers, subclasses 375+ for a feature of data bearing record control for an electronic cash register.

OTHER CLASSIFICATION SYSTEMS:

DERWENT T05-L01X, for other point-of-sale equipment or systems.

DERWENT T05-L01C, for product code reader.

24 Specified transaction journal output feature (e.g., printed receipt, voice output, etc.):

This subclass is indented under subclass 16. Subject matter producing a printed or audible indication of each component of a transaction.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 75, for cryptographic secure transaction having transaction verification.

OTHER CLASSIFICATION SYSTEMS:

DERWENT T05-L01X, for other point-of-sale equipment or systems.

25 Specified keyboard feature:

This subclass is indented under subclass 16. Subject matter including a feature of a keyboard including a plurality of manually operated switches.

SEE OR SEARCH CLASS:

- 341, Coded Data Generation or Conversion, subclasses 22+ for a keyboard controlled code transmitting device.
- 708, Electrical Computers: Arithmetic Processing and Calculating, subclass 142 for a keyboard input for a digital calculator.

OTHER CLASSIFICATION SYSTEMS:

- DERWENT T05-L01X, for other point-of-sale equipment or systems.
- DERWENT T05-L03C1, for general control system.

26.1 Electronic Shopping:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized 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.

- (1) Note. In-store shopping arrangements in which the device is shopper-operated are classifiable in this or its indented subclasses.
- (2) Note. Browsing of a selection without a purchase transaction is classified in this or its indented subclasses.
- (3) Note. An "item" for the purposes of classification in this and its indented subclasses, 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 subclasses 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, etc.) with little or no consideration to differences in attributes, character, quality or features. "Items" elsewhere provided for in this class (e.g., insurance products or services, or advertisement or promotion placement, etc.) are classifiable where provided for.

- (4) Note. A "shopping recommendation" for the purposes of classification in this or its indented subclasses 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.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 1.1, for arrangements specifically configured for the sale, trade or rental of items which require the resolution of complex legal contingencies, contract terms, approvals, assessments or titling associated with the trade or sale of the item, (e.g., real estate, etc.).
- 14.4, for a 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, etc.). 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, etc.).

26.2 Supply or demand aggregation:

This subclass is indented under subclass 26.1. 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.

- (1) Note. Subject matter specifically configured to enable the sale or trade of “items” not classifiable in this or its indented subclasses (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, etc.) is classifiable where provided for.
- 26.25 Regulated:**
This subclass is indented under subclass 26.1. 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.
- 26.3 Auction:**
This subclass is indented under subclass 26.1. 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.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
26.4, for Requests for Quotations (RFQs).
- 26.35 Buyer or seller confidence or verification:**
This subclass is indented under subclass 26.1. 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.
- 26.4 Request for offers or quotes:**
This subclass is indented under subclass 26.1. 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.
- 26.41 Third party assisted:**
This subclass is indented under subclass 26.1. Subject matter configured to facilitate and support third-party (e.g., concurring, neutral, trusted, representative, approving, or anonymizing intermediaries, agents, brokers, personnel, inspectors or facilitators, etc.) participation in a shopping activity.
- (1) Note. Participation of only those parties with an intimate role in the shopping activity are classified here, i.e., the transaction cannot be completed without their participation.
- (2) Note. Third parties include people, computerized agents, or computer programs.
- (3) Note. Customer service at or during purchase is classified here.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
1.1, for customer service after purchase.
- 26.42 Anonymizing:**
This subclass is indented under subclass 26.41. Subject matter wherein the third party participant in a transaction acts to hide the identity of either the buyer or seller.
- 26.43 Representative agent:**
This subclass is indented under subclass 26.41. Subject matter wherein the third party participant facilitates a transaction on behalf of the buyer or seller according to agreed upon rules or conditions.
- 26.44 Neutral agent:**
This subclass is indented under subclass 26.41. Subject matter wherein the third party participant facilitates a transaction in a manner which equally supports all participants.
- 26.5 Item configuration or customization:**
This subclass is indented under subclass 26.1. 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.

26.61 Item investigation:

This subclass is indented under subclass 26.1. 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.

26.62 Directed, with specific intent or strategy:

This subclass is indented under subclass 26.61. Subject matter drawn to researching using a formal process, including parametric searches, queries, or keywords.

26.63 Using item specifications:

This subclass is indented under subclass 26.62. 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.

26.64 For generating comparisons:

This subclass is indented under subclass 26.62. Subject matter drawn to examining items so as to identify the similarities or differences therebetween.

26.7 Item recommendation:

This subclass is indented under subclass 26.1. 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, etc.).

SEE OR SEARCH THIS CLASS, SUBCLASS:

14.49, for targeted advertising.

26.8 List (e.g., purchase order, etc.) compilation or processing:

This subclass is indented under subclass 26.1. 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.

(1) Note. Shopping, wish, or gift lists, or electronic shopping carts, are classified here.

26.81 Processing of requisition or purchase order:

This subclass is indented under subclass 26.8. Subject matter drawn to actions applied by an orderer to a purchase request, requisition or purchase order for goods or services following its preparation and submittal by an orderer.

SEE OR SEARCH THIS CLASS, SUBCLASS:

77, for cryptographic remote charge determination or payment systems.

26.82 Approval:

This subclass is indented under 26.81. 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.

26.9 Item location:

This subclass is indented under subclass 26.1. 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.

27.1 Shopping interface:

This subclass is indented under subclass 26.1. 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.

(1) Note. A shopping interface designed or intended for use by a customer (e.g., at an in-store kiosk, etc.) is classified in this or its indented subclasses.

SEE OR SEARCH THIS CLASS, SUBCLASS:

1.1, for a shopping interface designed or intended to provide information to in-store personnel, who subsequently provide information to the shopper.

27.2 Graphical representation of item or shopper:

This subclass is indented under subclass 27.1. 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, etc.), one or more items relative to a person, usage or shopping

environment (e.g., virtual fitting room, virtual design showcase, or virtual store, etc.), or a shopper avatar or image representing a shopper.

28

Inventory management:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for establishing, maintaining, or updating a record of a store of goods.

SEE OR SEARCH THIS CLASS, SUBCLASS:

22,, for an automated inventory management organization combined with a cash register or sales terminal.

OTHER CLASSIFICATION SYSTEMS:

ECLA G06F 17/60C4, for inventory purposes; for order filing.

ECLA G06F 17/60C5, for record storage, loading, unloading or distribution of goods or materials.

29

Itemization of parts, supplies, or services (e.g., bill of materials):

This subclass is indented under subclass 28. Subject matter drawn to a computerized arrangement for generating an itemized listing of the components needed either totally or based on specific tasks in an organization.

SEE OR SEARCH CLASS:

700, Data Processing: Generic Control Systems or Specific Applications, subclass 107 for a bill of materials system combined with a step of or structure for, product manufacture.

30

Accounting:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for recording, analyzing, verifying, or reporting of funds or other quantitatively innumerable factors used in a business.

SEE OR SEARCH CLASS:

377, Electrical Pulse Counters, Pulse Dividers, or Shift Registers: Circuits and Systems, subclass 14 for electrical registers for registering counts for different monetary amounts.

OTHER CLASSIFICATION SYSTEMS:

ECLA G06F 17/60D, for financial accounting; calculating earned income, interest, insurance premium, taxes.

31

Tax preparation or submission:

This subclass is indented under subclass 30. Subject matter drawn to a computerized arrangement for determining or submitting a tax or tax form to a governmental entity.

32

Time accounting (time and attendance, monitoring billable hours):

This subclass is indented under subclass 30. Subject matter for analysis or allocation of hours either (1) worked by an individual, or (2) utilized by and billable to an individual or other entity.

SEE OR SEARCH THIS CLASS, SUBCLASS:

7.42, for job performance analysis, computing quantities additional to attendance (e.g., productivity, etc.).

SEE OR SEARCH CLASS:

368, Horology, Time Measuring Systems or Devices, appropriate subclasses for time responsive control of general utility.

700, Data Processing: Generic Control Systems or Specific Applications, subclasses 14 through 16 for time responsive sequential or selective processor controller arrangement.

OTHER CLASSIFICATION SYSTEMS:

DERWENT S04-C03C, for timers, application.

DERWENT S04-E, for time recording.

DERWENT T05-G03, for registering/indicating-time of events.

33

Checkbook balancing, updating or printing arrangement:

This subclass is indented under subclass 30. Subject matter including an arrangement for attaching a data processing device to a checkbook, which processes transaction data to ver-

ify, or carry forward, the checkbook balance, or to print a check, upon to entry of an account transaction.

SEE OR SEARCH CLASS:

708, Electrical Computers: Arithmetic Processing and Calculating, subclass 106 for a checkbook attached digital calculator, in which the transaction information is limited to the date or transaction amount.

OTHER CLASSIFICATION SYSTEMS:

ECLA G06F 17/60D2, for account balancing.

34 Bill preparation:

This subclass is indented under subclass 30. Subject matter including an arrangement for generating a notice of payment due.

OTHER CLASSIFICATION SYSTEMS:

ECLA G06F 17/60B8, for financial accounting; calculating earned income, interest, insurance premium, taxes, billing or invoicing.

35 Finance (e.g., banking, investment or credit):

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for planning the disposition or use of funds or securities, or extension of credit.

SEE OR SEARCH CLASS:

186, Merchandising, for a banking structural arrangement.
235, Registers, subclass 379 for record-sensing devices in combination with a system that maintain financial accounts; i.e., a banking system; and subclass 380 for a system that includes the ascertaining of credit.

OTHER CLASSIFICATION SYSTEMS:

ECLA G06F 17/60B, for data processing in buying-selling transactions.

ECLA G06F 17/60D, for financial accounting.

DERWENT T05- J05I, includes banking, billing, point of sale (POS), electronic fund transfer (EFT), and metering.

36 Portfolio selection, planning or analysis:

This subclass is indented under subclass 35. Subject matter drawn to a computerized arrangement for planning the selection or evaluation of securities or other investments for a single entity.

(1) Note. The term "entity" refers to an individual or other legally recognized body.

OTHER CLASSIFICATION SYSTEMS:

ECLA G06F 17/60B4, for exchange business, e.g., quotations or sales transactions of stock or other commodities, etc.

ECLA H04L 12/18B, for stock quotation systems.

37 Trading, matching, or bidding:

This subclass is indented under subclass 35. Subject matter including the trading or exchange of securities or commodities within an organized system.

(1) Note. This subclass includes distribution of services or products (e.g., utilities, heating, etc.) in a building by an "auction" or bidding system.

38 Credit (risk) processing or loan processing (e.g., mortgage):

This subclass is indented under subclass 35. Subject matter drawn to a computerized arrangement for evaluation of the risk factors in a loan determination.

SEE OR SEARCH CLASS:

235, Registers, subclass 380 for a record-sensing device in combination with a system that includes the ascertaining of credit.

OTHER CLASSIFICATION SYSTEMS:

ECLA G06F 17/60D4, for risk analysis, e.g., for insurance pensions, etc.

39 Including funds transfer or credit transaction:

This subclass is indented under subclass 35. Subject matter drawn to a computerized arrangement for transferring funds by debiting one account and crediting another by the same amount.

- (1) Note. The accounts may be of the same or different individuals or entities.

SEE OR SEARCH THIS CLASS, SUBCLASS:

64, through 79 for cryptographic secure transaction.

SEE OR SEARCH CLASS:

902, Electronic Funds Transfer, appropriate subcollections for a cross-reference art collection of disclosures of electronic funds transfer without significant claimed data processing.

OTHER CLASSIFICATION SYSTEMS:

ECLA G06F 17/60D2, for account balancing.

DERWENT T05-L02, for electronic funds transfer.

40 Bill distribution or payment:

This subclass is indented under subclass 39. Subject matter drawn to a computerized arrangement for generating notices of payment due, or transferring funds in response thereto.

SEE OR SEARCH THIS CLASS, SUBCLASS:

2+, this subject matter particularly adapted for health insurance claims or payments.

77, for cryptographic remote charge determination or payment system.

OTHER CLASSIFICATION SYSTEMS:

ECLA G06F 17/60B8, for billing or invoicing.

41 Having programming of a portable memory device (e.g., IC card, "electronic purse"):

This subclass is indented under subclass 39. Subject matter having a 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.

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

- (2) Note. Included herein is a transaction specific card preprogramming arrangement.

SEE OR SEARCH THIS CLASS, SUBCLASS:

65, through 79 for cryptographic secure transaction including intelligent token.

SEE OR SEARCH CLASS:

257, Active Solid-State Devices (e.g., Transistors, Solid-State Diodes), subclass 674 for semiconductor smart card structure.

902, Electronic Funds Transfer, subcollection 26 for a cross-reference art collection of disclosures of an ATM or similar card carrying semiconductor or processing circuitry.

OTHER CLASSIFICATION SYSTEMS:

DERWENT T04-K, for smart cards, i.e., cards incorporating integrated circuit memory, etc.

DERWENT T01-H01B3A, for memory card.

DERWENT T05-H02C5, [for card-freed apparatus] magnetic card

DERWENT T05-H02C5B, for optical card.

DERWENT T05-H02C5C, for smart card, IC card.

42 Remote banking (e.g., home banking):

This subclass is indented under subclass 39. Subject matter for an arrangement 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.

- (1) Note. Such a computer may be located in a user's residence or place of business.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 18, for a point of sale terminal requiring authorization or authentication.
70, for cryptographic home banking secure transaction.

SEE OR SEARCH CLASS:

- 235, Registers, subclass 379 for a record-sensing device in combination with a system that maintains financial accounts, i.e., banking system.
902, Electronic Funds Transfer, subcollection 26 for a cross-reference art collection of disclosures of home banking using a general purpose terminal.

OTHER CLASSIFICATION SYSTEMS:

ECLA G06F 17/60C, for centrally controlled vending system.

43 Including Automatic Teller Machine (i.e., ATM):

This subclass is indented under subclass 39. Subject matter drawn to a computerized arrangement to either (a) accept for deposit by a user*, or (b) convey for withdrawal to a user*, a financial document or currency; in connection with a computerized concurrent transaction.

SEE OR SEARCH CLASS:

- 902, Electronic Funds Transfer, subcollections 8+ for a cross-reference art collection of disclosures of an ATM terminal.

OTHER CLASSIFICATION SYSTEMS:

DERWENT T05-L03, for cash dispensing and depositing machines.

DERWENT T05-H02, [for card, token, or card -freed apparatus] equipment actuated by objects other than coins.

DERWENT T05-D01, for personnel control (ATM).

44 Requiring authorization or authentication:

This subclass is indented under subclass 39. Subject matter in which an approval is required prior to effecting a funds transfer between accounts.

- (1) Note. Such approval may be related to either the permitted amount of the transaction or the identity or authorization of the user.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 67, for cryptographic secure transaction including intelligent token for authentication.

SEE OR SEARCH CLASS:

- 713, Electrical Computers and Digital Processing Systems: Support, appropriate subclasses and particularly subclasses 182 through 186 for system access control based on cryptographic user identification.
726, Information Security, subclasses 1 through 36 for information security in computers or digital processing system.

OTHER CLASSIFICATION SYSTEMS:

DERWENT T05-01B, for with human characteristic detection.

DERWENT T05-L03C, for security and control.

DERWENT T05-L03C8, for security system aspects.

45 With paper check handling:

This subclass is indented under subclass 39. Subject matter which processes a paper document authorizing the transaction check as part of the funds transfer operation.

- (1) Note. The document may be a check, deposit slip or withdrawal slip.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 24, for an electronic cash register which may process (e.g., endorse a check by printing.

SEE OR SEARCH CLASS:

- 235, Registers, subclasses 375+ for a check reading system absent significant data processing.
382, Image Analysis, subclass 137 for a pattern reading image analysis system for reading a bank check.

50 BUSINESS PROCESSING USING CRYPTOGRAPHY:

This subclass is indented under the class definition. Subject matter including cryptographic apparatus or methods uniquely designed for or utilized in the practice, administration, or management of an enterprise, the processing of financial data, or where a charge for goods or services is determined.

- (1) Note. Excluded herein is subject matter related to business processing having only nominal recitation of cryptographic processing such as encrypting, scrambling, etc. Such nominal recitation of cryptography combined with business processing is classified elsewhere.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 1.1, 400 through 418, and 500 for business data processing in general or in combination with nominal cryptography.

OTHER CLASSIFICATION SYSTEMS:

IPC G06F 17/60, for administrative, commercial, managerial, supervisory, or forecasting purposes.

IPC G07G 1/12, for electronic cash registers other than digital data processing aspects thereof.

IPC H04K 1/00, for secret communication.

IPC G09C, for ciphering or deciphering apparatus for cryptographic or other purposes involving the need for secrecy.

IPC H04B, for transmission.

IPC H04B 1/66, for reducing bandwidth of signals.

IPC H04B 1/69, for spread spectrum techniques in general.

IPC H04B 14/08, by using a sub-carrier.

IPC H04J, for multiplex communication.

IPC H04N 7/16, for secret or subscription television systems.

IPC H04L 9/00, for arrangements for secret or secure communication.

DERWENT T01-J05, for administration, commerce, or information retrieval.

DERWENT T01-J05A2, for administration and management tools -- includes management, resource allocation, business, education, government, marketing, and law. Also includes, decision support, MIS, stock control, workflow control, and project management

DERWENT T01-J05A, for administration, commerce.

DERWENT W01-A05, for secret communication.

51 Usage protection of distributed data files:

This subclass is indented under 50. Subject matter wherein the usage of distributed information representing a selection by an individual is controlled by encryption.

- (1) Note. Examples of such distribution can be by way of a storage medium such as a CD or by downloading.

52 Usage or charge determination:

This subclass is indented under 51. Subject matter including determining the amount of use of the selected information or a cost associated therewith.

- SEE OR SEARCH THIS CLASS, SUB-CLASS:
77, through 79, for a general electronic commerce system which includes billing.
- SEE OR SEARCH CLASS:
380, Cryptography, subclasses 227 through 230 for video electric signal modification using cryptography via record or coin control, and subclasses 231 - 234 for video electric signal modification using cryptography having usage or charge determination.
- 53 Including third party for collecting distributing payment (clearinghouse):**
This subclass is indented under 52. Subject matter wherein a third party not associated with the actual distribution of the selected data is utilized to gather or disperse payment therefor.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
78, for a secure transaction including a third party.
- 54 Adding plural layers of rights or limitations by other than the original producer:**
This subclass is indented under 52. Subject matter wherein a party other than the originating source places further restriction or proprietary interest on the use of the selected data.
- 55 Requiring a supplemental attachment or input (e.g., dongle) to open:**
This subclass is indented under 51. Subject matter wherein an auxiliary device or signal interacts with the distributed data file to permit usage.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
59, for licensing in general.
- 56 Specific computer ID (e.g., serial number, configuration, etc.):**
This subclass is indented under 55. Subject matter wherein the interaction uses a signal that describes or is characteristic of a particular data processing system.
- 57 Copy protection or prevention:**
This subclass is indented under 51. Subject matter which prevents rerecording of a distributed data file.
- SEE OR SEARCH CLASS:
380, Cryptography, subclasses 201 through 204 for copy protection or prevention of a video signal.
- 58 Having origin or program ID:**
This subclass is indented under 57. 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.
- 59 Licensing:**
This subclass is indented under 51. Subject matter wherein a determination is made that an outside entity has authorized the use of the selection.
- SEE OR SEARCH CLASS:
726, Information Security, subclasses 1 through 36 for information security in computers or digital processing system.
- 60 Postage metering system:**
This subclass is indented under 50. 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.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
401+, for a postage meter system absent cryptography.
- SEE OR SEARCH CLASS:
380, Cryptography, subclass 51 for electric signal modification with printed copy production and subclass 55 for cryptographic printed copy production in general.
- 61 Reloading/recharging:**
This subclass is indented under 60. Subject matter wherein additional funds are provided to the account balance.

- SEE OR SEARCH THIS CLASS, SUB-CLASS:
403, for postage meter recharging absent cryptography.
- 62 Having printing detail (e.g., verification of mark):**
This subclass is indented under 60. Subject matter wherein particulars of the marking of the article to be mailed are provided.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
408, for postage meter printing absent cryptography.
- SEE OR SEARCH CLASS:
358, Facsimile and Static Presentation Processing, subclasses 1.1 through 1.18 for static presentation processing (e.g., printing).
- 63 Utility metering system:**
This subclass is indented under 50. Subject matter wherein the distribution of energy (e.g., gas, electricity) or water is monitored.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
412, for utility usage cost determination absent cryptography.
- SEE OR SEARCH CLASS:
702, Data Processing: Measuring, Calibrating, or Testing, subclass 61 and 62 for power logging (e.g., metering).
- 64 Secure transaction (e.g., EFT/POS)**
This subclass is indented under 50. Subject matter wherein an exchange of financial data is protected by encryption.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
16, and 17 - 25 for a point of sale terminal processing absent cryptography.
39, for funds transfer processing absent cryptography.
- SEE OR SEARCH CLASS:
221, Article Dispensing, appropriate subclasses for currency dispensing structure absent signal encryption.
- 235, Registers, subclass 379 for a coded record actuated banking system and subclasses 380 - 382.5 for a coded record operated credit system absent signal encryption.
- 340, Communications: Electrical, subclasses 5.1 through 5.92 for an intelligence comparing credit system absent signal encryption.
- 379, Telephonic Communication, subclasses 91.01 through 91.02 for automatic credit authorization over a telephone line absent signal encryption.
- 902, Electronic Funds Transfer, appropriate subclasses, particularly subclass 2 for a cross reference art collection of transmitted data protection which may be via encryption.
- 65 Including intelligent token (e.g., electronic purse):**
This subclass is indented under 64. Subject matter under subclass 64 which includes a portable carrier with data processing capability.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
17, for point of sale device having interface for record bearing medium.
41, for electronic purse programming absent cryptography.
- SEE OR SEARCH CLASS:
235, Registers, subclass 379 for a banking system controlled by data bearing record.
713, Electrical Computers and Digital Processing Systems: Support, subclass 159 for cryptographic multiple computer communication central trusted authority authentication having intelligent token and subclasses 185 and 186 for digital processing access control using record or token.
726, Information Security, subclasses 1 through 36 for information security in computers or digital processing system.
902, Electronic Funds Transfer, subclasses 25 through 29 for cross reference art collections utilizing a specific identifier (e.g., bank card) in electronic funds transfer.

- 66 Intelligent token initializing or reloading:**
This subclass is indented under 65. Subject matter wherein the intelligent token is programmed prior to use or its value bearing data is increased.
- 67 Including authentication:**
This subclass is indented under 65. Subject matter wherein the intelligent token participates in a validation procedure.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
44, for funds transfer requiring authentication absent cryptography.
- SEE OR SEARCH CLASS:
380, Cryptography, subclass 229 for video signal modification which is record or coin controlled and includes authentication, subclass 232 for video signal modification which has usage or charge determination including authentication, subclasses 247 - 250 for cellular phone cryptographic authentication, and subclass 258 for a communication system which is position dependent or has authentication.
713, Electrical Computers and Digital Processing Systems: Support, subclasses 155 through 159 for multiple computer communication using cryptography having central trusted authority providing computer authentication, subclass 161 for multiple computer communication using cryptography where packet header denotes cryptographically protected data and having data authentication, and subclasses 168 - 181 for multiple computer communication using cryptography having particular communication authentication technique, particularly subclasses 172 - 174 for multiple computer communication authentication using an intelligent token.
726, Information Security, subclasses 1 through 36 for information security in computers or digital processing system.
- 68 Balancing account:**
This subclass is indented under 65. Subject matter including reconciliation of cumulative transaction data on the portable data carrier with corresponding data from a host.
- 69 Electronic cash detail (e.g., blinded, divisible, or detecting double spending):**
This subclass is indented under 65. Subject matter including specifics of value bearing data stored on the intelligent token.
- SEE OR SEARCH CLASS:
713, Electrical Computers and Digital Processing Systems: Support, subclass 180 for generating specific digital signature type.
726, Information Security, subclasses 1 through 36 for information security in computers or digital processing system.
- 70 Home banking:**
This subclass is indented under 64. Subject matter wherein the user terminal is located in the user's place of residence.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
42+, for home banking absent cryptography.
- SEE OR SEARCH CLASS:
902, Electronic Funds Transfer, subclass 24 for a cross reference art collection of electronic funds transfer which includes home banking.
- 71 Including key management:**
This subclass is indented under 64. Subject matter including supervision or control of a signal necessary for encryption or decryption.
- SEE OR SEARCH CLASS:
380, Cryptography, subclasses 277+ for generic key management.
- 72 Verifying PIN:**
This subclass is indented under 64. Subject matter wherein the personal identification number is confirmed.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

18, for point of sale terminal having security identification provision absent encryption and subclass 44 for funds transfer authorization absent encryption.

SEE OR SEARCH CLASS:

713, Electrical Computers and Digital Processing Systems: Support, subclass 183 for system access having password entry and subclass 184 for a PIN generator device.

726, Information Security, subclasses 1 through 36 for information security in computers or digital processing system.

OTHER CLASSIFICATION SYSTEMS:

IPC G06F 17/60, for administrative, commercial, managerial, supervisory, or forecasting purposes.

IPC G07G 1/12, for electronic cash registers other than digital data-processing aspects thereof.

IPC H04K 1/100, for secret communication.

IPC G09C, for ciphering and deciphering apparatus.

IPC H04B 1/66, for systems with reduced bandwidth or suppressed carrier.

IPC H04B 1/69, for spread spectrum techniques in general.

IPC H04B 14/08, by using a sub. carrier.

IPC H04J, by multiplexing.

IPC H04L 9/00, for transmission systems for secret digital information.

IPC H04L 9/32, for arrangement for secret or secure communication including means for verifying the identity or authority of a user of the system.

IPC G06F, for computer system.

IPC G07F 7/08, for coin freed or like apparatus with coded identity card or credit card.

73 Terminal detail (e.g., initializing)

This subclass is indented under 64. Subject matter including specifics of a user station.

74 Anonymous user system:

This subclass is indented under 64. Subject matter wherein the identity of a user is not traceable to a particular transaction.

75 Transaction verification:

This subclass is indented under 64. Subject matter wherein the details of a transaction are cryptographically processed to allow subsequent confirmation thereof.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

24, for point of sale terminal with transaction journal output absent encryption.

SEE OR SEARCH CLASS:

713, Electrical Computers and Digital Processing Systems: Support, subclasses 176 through 179 for authentication by digital signature.

726, Information Security, subclasses 1 through 36 for information security in computers or digital processing system.

76 Electronic credential:

This subclass is indented under 64. Subject matter wherein digital data authorizing a particular user to participate in a transaction is provided.

77 Including remote charge determination or related payment system:

This subclass is indented under 64. Subject matter wherein the determination at a remote vendor site of a payment due or a transfer of funds from a buyer to a remote vendor.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

26.1, through 27.2, for electronic shopping absent encryption.

40, for bill distribution or payment absent cryptography.

52, through 54, for usage or charge determination of a protected distributed data file.

78 Including third party:

This subclass is indented under 77. Subject matter wherein an additional party remote from the vendor sends a notice of payment due to a

remote buyer or receives funds transferred from a remote buyer.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

53, for usage or charge determination of a protected distributed data file having a third party.

79 Including a payment switch or gateway:
This subclass is indented under 77. Subject matter wherein the transfer of funds or payment due includes a communication node connecting two different financial networks.

SEE OR SEARCH CLASS:

713, Electrical Computers and Digital Processing Systems: Support, subclasses 153 and 154 for a particular node in cryptographically protected multiple computer communication.

726, Information Security, subclasses 1 through 36 for information security in computers or digital processing system.

80 ELECTRONIC NEGOTIATION:
This subclass is indented under the class definition. Subject matter including an offer and acceptance or counteroffer among parties.

300 Collaborative creation of a product or a service:
This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for initial conceptual development, through cooperation between plural parties, (e.g., brainstorming, idea development, etc.), of a commodity or of work that can be performed for another.

301 Workflow collaboration or project management:
This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for the routing or approving of projects between workforce units or for organizing and managing of resources (e.g., people, etc.) in such a way that a planned undertaking is completed within defined scope, quality, time, and cost constraints.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

7, for a computerized arrangement for the systematic and scientific analysis and evaluation of the operation of an organization or the programmed scheduling of an organization.

302 Product or service warranty:
This subclass is indented under subclass 1.1. Subject matter drawn to a computerized 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.

303 Product recall:
This subclass is indented under subclass 1.1. Subject matter drawn to a computerized 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.

304 Customer service (i.e., after purchase):
This subclass is indented under subclass 1.1. Subject matter drawn to a computerized 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, customer support, etc.).

SEE OR SEARCH THIS CLASS, SUB-CLASS:

26, for on-line customer service before or during purchase.

305 Product repair or maintenance administration:
This subclass is indented under subclass 1.1. Subject matter drawn to a computerized 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, etc.).

306 Product appraisal:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for the determination of a monetary value for a particular item (e.g., cars, antiques, houses, etc.).

307 Rental (i.e., leasing):

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for the creation or maintenance of a record keeping system for recording the allocation of the temporary use of commodities.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

16, for rental payment transactions occurring at a point of sale terminal or electronic cash register in a retail outlet or kiosk.

26, electronic shopping (e.g., remote ordering) for on-line remote browsing or payment for rental commodities.

35, for payment or funds transfer associated with a rental transaction.

308 Product recycling or disposal administration:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized 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.

309 Alternate dispute resolution:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for the development or maintenance of procedures or processes (e.g., arbitration, reconciliation, mediation etc.) that are voluntarily adopted to resolve controversies (or to settle disagreements) before taking recourse to legal action (i.e., litigation).

SEE OR SEARCH THIS CLASS, SUB-CLASS:

80, for electronic negotiation including an offer and acceptance or counteroffer, among parties.

310 Intellectual property management:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized 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).

SEE OR SEARCH THIS CLASS, SUB-CLASS:

36, for portfolio valuation.

50 through 79, for Digital Rights Management with encryption.

901 through 912, for Digital Rights Management without encryption.

311 Legal service:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for work performed by a lawyer for a client.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

310, for management of intellectual property which may be done by a lawyer.

312 Estate planning:

This subclass is indented under subclass 311. Subject matter drawn to a computerized 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, etc.).

SEE OR SEARCH THIS CLASS, SUB-CLASS:

35, for subject matter drawn to a computerized arrangement for planning the disposition or use of funds or securities, or extension of credit.

313 Real estate:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized 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 thereon.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 38, for financing real estate.
- 306, for real estate appraisal.
- 307, for real estate rental or leasing.

314 Property management:

This subclass is indented under subclass 313. Subject matter drawn to a computerized arrangement for managing the operation of commercial, industrial or residential real estate.

315 Land development:

This subclass is indented under subclass 313. Subject matter drawn to a computerized arrangement for managing an area of land or water in order to make it more profitable, productive, or useful.

316 Closing:

This subclass is indented under subclass 313. Subject matter drawn to a computerized arrangement for the transfer of ownership of and title to property from one person to another for a price.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 311, for legal services associated with a real estate sale.

317 Business or product certification or verification:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized 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.

- (1) Note. 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.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 7, for application including analysis of business processes or operations research.
- 311, for a computerized arrangement for the management of the work performed by a lawyer for a client.

SEE OR SEARCH CLASS:

- 707, Data Processing: Database, Data Mining, and File Management or Data Structures, various subclasses for business data generation, filing, manipulation, etc., without means for business data distribution, processing or usage in a business environment.

318 Product, service, or business identity fraud:

This subclass is indented under subclass 317. Subject matter drawn to a computerized 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.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 14.26, for fraud prevention in connection with a coupon or other incentive.
- 14.47, for fraud detection in advertising.
- 35, for fraud prevention involving financial transactions.
- 325, for the detection of illicit use of personal information, such as identity fraud analysis or detection means for determining that a person or business entity is who they say they are.

SEE OR SEARCH CLASS:

- 283, Printed Matter, subclass 72 for fraud detection or indicia related to printed media, without usage of fraud detection in a business environment.
- 379, Telephonic Communications, subclass 114.14 for fraud related to telephone communications.
- 455, Telecommunications, subclass 410 for defeating or indicating an attempt to use the radiotelephone system without

a proper authorization or control function.

319 Social networking:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for the management of interaction between individuals or entities who are connected by one or more common relations or interests.

320 Human resources:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for keeping of records (e.g., benefits, etc.) of the departments or employees of an organization, or hiring of employees.

SEE OR SEARCH THIS CLASS, SUBCLASS:

7, for employee performance review or evaluation.

321 Employment or hiring:

This subclass is indented under subclass 320. Subject matter drawn to a computerized arrangement for engaging the services of a person or persons for wages or other payment either directly or through a third party.

SEE OR SEARCH THIS CLASS, SUBCLASS:

8, for resource needs or requirements for a particular position.

322 Benefits package:

This subclass is indented under subclass 320. Subject matter drawn to a computerized arrangement for the maintenance, regulation, or the monitoring of non-monetary employment compensation provided to employees by an organization (e.g., health insurance, leave, retirement, etc.).

SEE OR SEARCH THIS CLASS, SUBCLASS:

2, for insurance co-pay determination.
36, for retirement fund portfolio management.

323 Destination assistance within a business structure or complex:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for providing direction information at a business location or the creation of direction plan for a business location.

324 Building evacuation:

This subclass is indented under subclass 323. Subject matter drawn to a computerized arrangement for the removal of people from a structure for protective purposes.

(1) Note. Included herein is a computerized arrangement for the creation of a removal plan.

325 Personal security, identity, or safety:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized 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, etc., in order to bar an individual who may cause harm to another, etc.), (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.

SEE OR SEARCH THIS CLASS, SUBCLASS:

35, for fraud prevention or detection during financial transactions.

318, for fraud associated with business products or services.

SEE OR SEARCH CLASS:

340, Communications: Electrical, subclass 5.52 for electrical communication of personal identification information (i.e., biometrics) in order to allow entry, and subclass 5.8 for electrical communication of personal identification information (i.e., biometrics) to validate identity.

382, Image Analysis, subclass 115 for image analysis for personnel identification, (e.g., biometrics, etc.).

- 713, Electrical Computers and Digital Processing Systems: Support, subclass 186, for system access control based on user identification (e.g., biometrics).
- 726, Information Security, subclass 2 for access control or authentication, involving biometrics.
- 902, Electronic Funds Transfer, subclass 3 for security evaluation involving biometrics.
- 326 Education administration or guidance:**
This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for (1) the business of conducting, organizing, or maintaining the management functions of an organization concerned with teaching, (2) the management of the process of institution or course selection, or (3) the management of assistance programs.
- (1) Note. This subclass includes continuing education planning.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
- 30, for arrangement for recording, analyzing, verifying, or reporting of funds or other quantitatively innumerable factors used in a business.
- 35, for arrangement for planning the disposition or use of funds or securities, or extension of credit.
- SEE OR SEARCH CLASS:
- 434, Education and Demonstration, for subject matter dealing with instruction, demonstration or grading of students.
- 327 Education institution selection, admissions, or financial aid:**
This subclass is indented under subclass 326. Subject matter drawn to a computerized 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.
- 328 Career enhancement or continuing education service:**
This subclass is indented under subclass 326. Subject matter drawn to a computerized arrangement for analysis or assistance associated with career change or advancement.
- (1) Note. This subclass includes computerized arrangements for analyzing or tracking credit for work experience.
- 329 Fundraising Management:**
This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for a system for developing, organizing or monitoring the organized activity of soliciting and collecting money for a nonprofit or political organization.
- 330 Shipping:**
This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for the delivery of goods or items between parties, or for the monitoring of the status of that delivery.
- 331 Overseas transaction:**
This subclass is indented under subclass 330. Subject matter drawn to a computerized arrangement for managing the delivery of goods that are transported over international waters or across international borders.
- 332 Special goods or handling procedure:**
This subclass is indented under subclass 330. Subject matter drawn to a computerized arrangement for the handling of a shipment of goods that requires particular preparation measures or transport specifications.
- (1) Note. This subclass includes such special goods or handling procedures as the shipping of goods in refrigerated vehi-
- SEE OR SEARCH THIS CLASS, SUBCLASS:
- 30, for recording, analyzing, verifying, or reporting of funds or other quantitatively innumerable factors used in a business.
- 35, for arrangement for planning the disposition or use of funds or securities, or extension of credit.

cles or the special packing or transport measures for handling hazardous or delicate materials.

333 Tracking:

This subclass is indented under subclass 330. Subject matter drawn to a computerized arrangement for systems allowing various parties in a delivery transaction to determine the location of goods during their preparation for delivery and/or during transport between destinations.

334 Choice of carrier:

This subclass is indented under subclass 330. Subject matter drawn to a computerized arrangement for determining which carrier a particular shipper or supplier should utilize for a specific delivery transaction.

335 Pricing:

This subclass is indented under subclass 334. Subject matter drawn to a computerized arrangement to assist shippers, suppliers or recipients of goods in managing the determination of an appropriate or established price for a delivery transaction.

336 Relationship between shipper or supplier and a carrier:

This subclass is indented under subclass 330. Subject matter drawn to a computerized arrangement directed at handling the transactions between a shipper or supplier of goods and the carrier who will deliver the goods.

337 Carrier internal procedure:

This subclass is indented under subclass 330. Subject matter drawn to a computerized arrangement for managing the internal operations of a carrier of goods.

338 Routing method:

This subclass is indented under subclass 337. Subject matter drawn to a computerized arrangement for determining optimum routing of certain goods in an existing delivery system or to identify an appropriate route for delivery of specified goods.

(1) Note. The routing method is often directed at cost savings or delivery time minimization.

339 Central recipient pick-up:

This subclass is indented under subclass 330. Subject matter drawn to a computerized arrangement for managing the handling of delivery of goods to allow recipients to pick up the goods at a centralized location.

340 Return transaction:

This subclass is indented under subclass 330. Subject matter drawn to a computerized arrangement for the sending of received goods back to a supplier or manufacturer.

341 Historical data:

This subclass is indented under subclass 330. Subject matter drawn to a computerized arrangement for the maintenance or tracking of information collected in shipping transactions such as customer data, established routes, load history and cost information.

342 Business documentation:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement which involves the management of business documents or business document generation as a business function, with the inclusion of means for distribution, processing or the usage of the business data in a business environment.

(1) Note. Subject matter herein, must specify a means for distribution, processing or usage of business documentation data in a business environment.

SEE OR SEARCH THIS CLASS, SUBCLASS:

7, for operations research.

301, for workflow collaboration or project management documentation.

SEE OR SEARCH CLASS:

283, Printed Matter, appropriate subclasses for printing operation for generation of printed media, without means for distribution, processing or usage in a business environment.

379, Telephonic Communications, appropriate subclasses for telephone apparatus, system and communications, without means for business data dis-

- tribution, processing or usage in a business environment.
- 455, Telecommunications, appropriate subclasses for telephone apparatus, systems and communications, without means for business data distribution, processing or usage in a business environment.
- 707, Data Processing: Database, Data Mining, and File Management or Data Structures, appropriate subclasses for data access, generation, filing, manipulation, etc., without means for business data distribution, processing or usage in a business environment.
- 709, Electrical Computer and Digital Processing Systems: Multicomputer Data Transferring, subclass 204 for computer conferencing which does not involve business data distribution, processing or usage in a business environment.
- 715, Data Processing: Presentation Processing of Document, Operator Interface Processing, and Screen Saver Display Processing, subclass 221 for form generation and manipulation related to generation of model files or templates, subclass 764 for 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.

343 Service or product manual or catalogue:

This subclass is indented under subclass 342. Subject matter drawn to a computerized arrangement for the generation of documents used to describe the use or the features of a business service or product with a means for distribution or usage in a business environment.

- (1) Note. This subclass includes both hardcopy and electronic documentation.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 26, for on-line shopping.

SEE OR SEARCH CLASS:

- 283, Printed Matter, appropriate subclasses for printing operation for generation of printed media, without means for distribution, processing or usage in a business environment.
- 379, Telephonic Communications, appropriate subclasses for telephone apparatus, system and communications, not involving business data distribution, processing or usage in a business environment.
- 455, Telecommunications, appropriate subclasses for telephone apparatus, systems and communications, not involving business data distribution, processing or usage in a business environment.
- 707, Data Processing: Database, Data Mining, and File Management or Data Structures, appropriate subclasses for data access, generation, filing, manipulation, etc., without means for business data distribution, processing or usage in a business environment.
- 709, Electrical Computer and Digital Processing Systems: Multicomputer Data Transferring, subclass 204 for computer conferencing which does not involve business data distribution, processing or usage in a business environment.
- 715, Data Processing: Presentation Processing of Document, Operator Interface Processing, and Screen Saver Display Processing, subclass 221 for form generation and manipulation related to generation of model files or templates, and subclass 764 for 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.

344 Publishing content to a subscriber of a service:

This subclass is indented under subclass 342. Subject matter drawn to a computerized arrangement for generating, managing or brokering of on-line or hardcopy documents, with

means for distribution, access or usage by the clients of the business.

- (1) Note. Included herein is subject matter where documents may be published in response to a predetermined schedule, or as a result of triggering events.

SEE OR SEARCH CLASS:

- 283, Printed Matter, appropriate subclasses for printing operation for generation of printed media, e.g., without means for distribution, processing or usage in a business environment.
- 379, Telephonic Communications, appropriate subclasses for telephone apparatus, system and communications, not involving business data distribution, processing or usage in a business environment.
- 455, Telecommunications, appropriate subclasses for telephone apparatus, systems and communications, not involving business data distribution, processing or usage in a business environment.
- 707, Data Processing: Database, Data Mining, and File Management or Data Structures, appropriate subclasses for data access, generation, filing, manipulation, etc., without means for business data distribution, processing or usage in a business environment.
- 709, Electrical Computer and Digital Processing Systems: Multicomputer Data Transferring, subclass 204 for computer conferencing not involving business data distribution, processing or usage in a business environment.
- 715, Data Processing: Presentation Processing of Document, Operator Interface Processing, and Screen Saver Display Processing, subclass 221 for form generation and manipulation related to generation of model files or templates, and subclass 764 for 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.

345 Employee communication administration:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for directing business activity information or instructions to agents of a business via the Intranet, Internet, World Wide Web, including wireless communications to business personnel.

- (1) Note. Included herein are communications to remote agents of the business, such as field service, sales, delivery or other personnel.
- (2) Note. For the purposes of this definition, agents are considered employees.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 7, for an application including analysis of business processes or operations research.

SEE OR SEARCH CLASS:

- 379, Telephonic Communications, appropriate subclasses for telephone apparatus, system and communications, for communications not involving business data distribution, processing or usage in a business environment.
- 455, Telecommunications, appropriate subclasses for telephone apparatus, systems and communications, e.g., for communications not involving business data distribution, processing or usage in a business environment.
- 709, Electrical Computer and Digital Processing Systems: Multicomputer Data Transferring, subclass 204 for computer processing not involving business data distribution, processing or usage in a business environment.

346 Customer communication at a business location (e.g., providing product or service information, consulting, etc.):

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for communications directed to client in a place of business by means of a wired or a wireless network.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 7, for an application including analysis of business processes or operations research.
- 14.1, for a coupon or other incentive.
- 14.4, for advertising.
- 16, for a mechanism for effecting a transaction and determining the amount of a sale which may also be a terminal in a system.
- 26, for a system which enables a purchaser to inspect or select from a plurality of different items, or effect a purchase of one or more items at a location geographically separated from the system user.

SEE OR SEARCH CLASS:

- 455, Telecommunications, appropriate subclasses for telephone apparatus and communications, e.g., without means for business data distribution, processing or usage in a business environment.
- 709, Electrical Computer and Digital Processing Systems: Multicomputer Data Transferring, subclass 204 for computer conferencing communications distribution, without means for business data distribution, processing or usage in a business environment.

347 Business establishment or product rating or recommendation:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for ranking or collecting reviews regarding business entities or the products or the services of business entities.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 7, for an application including analysis of business processes or operations research.
- 26, for an application including on-line browsing or purchase of a product or service.

SEE OR SEARCH CLASS:

- 707, Data Processing: Database, Data Mining, and File Management or Data Structures, subclass 1.1 for database or file accessing, subclass 100 for database schema or data structure and subclass 200 for file or database maintenance; for data access, generation, filing, manipulation, etc. (e.g., without means for business data distribution, processing or usage in a business environment).

348 Business modeling:

This subclass is indented under subclass 1.1. Subject matter drawn to a computerized arrangement for simulation of a business operation or a function.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 7, for an application including analysis of business processes or operations research.

SEE OR SEARCH CLASS:

- 703, Data Processing: Structural Design, Modeling, Simulation, and Emulation, appropriate subclasses for structures, devices or systems classified therein, without means for business data distribution, processing or usage in a business environment.
- 706, Data Processing: Artificial Intelligence, appropriate subclasses for modeling or rules templates with learning, but without means for business data distribution, processing or usage in a business environment.
- 707, Data Processing: Database, Data Mining, and File Management or Data Structures, appropriate subclass 1.1 for business model or rules template generation, filing, manipulation, etc., without means for business data distribution, processing or usage in a business environment.
- 715, Data Processing: Presentation Processing of Document, Operator Interface Processing, and Screen Saver Display Processing, subclass 221 for form generation and manipulation related to generation of model files or

templates, and subclass 764 for 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.

400 FOR COST/PRICE:

This subclass is indented under the class definition. Subject matter wherein the data processing or calculating computer is designed for or utilized in determining charges for goods or services.

SEE OR SEARCH THIS CLASS, SUBCLASS:

1.1, for a specific application of business practice and management, particularly subclass 5 for a reservation system including means for calculating a fare, subclass 16 for a cash register for calculating cost/price of commodity, and subclasses 50 through 80 for business processing using cryptography.

SEE OR SEARCH CLASS:

235, Registers, subclasses 7+ for a cash register, and subclass 61 for mechanically computing a cost/price ratio.

401 Postage meter system:

This subclass is indented under subclass 400. Subject matter wherein the data processing or calculating computer comprises means for determining and printing cost required for mailing an article.

SEE OR SEARCH CLASS:

177, Weighing Scales, subclasses 25.11+ for generic weight determining devices utilizing mathematical computing.

402 Special service or fee (e.g., discount, surcharge, adjustment, etc.)

This subclass is indented under subclass 401. Subject matter wherein a basic postage fee is modified to accommodate a particular postage service or condition.

(1) Note. The particular postage service includes, for example, express mail, cer-

tified mail, C.O.D., special delivery, insurance, return receipt, etc.

(2) Note. The condition includes, for example, discount, surcharge, adjustment, the least costly fee, etc.

(3) Note. 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 subclass.

SEE OR SEARCH THIS CLASS, SUBCLASS:

409, for postage meter system comprising means for revising a postage rate structure.

403 Recharging:

This subclass is indented under subclass 401. 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.

SEE OR SEARCH THIS CLASS, SUBCLASS:

61, for reloading recharging in a cryptographic postage metering system.

404 Record keeping:

This subclass is indented under subclass 401. Subject matter comprising means for storing a list of cumulative historical information related to a postage activity.

405 Data protection:

This subclass is indented under subclass 401. Subject matter comprising means for preventing postage information from being inadvertently modified or destroyed.

SEE OR SEARCH CLASS:

726, Information Security, subclasses 1 through 36 for information security in computers or digital processing system.

406 With specific mail handling means:

This subclass is indented under subclass 401. Subject matter including details of means for performing a mailing process associated with the article.

- (1) Note. Means for performing a mailing process includes, for example, feeder, conveyor, inserter, sorter, sealer, stacker, etc.

SEE OR SEARCH CLASS:

- 53, Package Making, subclasses 154+ for forming and packing contents unit from plural or different supply sources.
- 198, Conveyors: Power-Driven, appropriate subclasses for a particular type of conveying system.
- 209, Classifying, Separating, and Assorting Solids, subclass 900 for a cross reference art collection involving sorting flat-type mail.

407 Including mailed item weight:

This subclass is indented under subclass 401. Subject matter wherein postage of the article is determined from the weight of the article.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 23, for a point of sale terminal or an electronic cash register having a weighing device.
- 414+, for computing means including a weighing device for computing weight and cost of goods.

408 Specific printing:

This subclass is indented under subclass 401. Subject matter including details of a printing mechanism or of information to be printed.

- (1) Note. The details of information to be printed includes, for example, messages, graphical data, coded data, encrypted information, etc.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 62, for printing detail in a cryptographic postage metering system.

- 410, for a software printing control module.

SEE OR SEARCH CLASS:

- 101, Printing, appropriate subclasses for printing by impression of types or die or by applying coating matter through perforations, as in stenciling.
- 347, Incremental Printing of Symbolic Information, appropriate subclasses for printing information dot by dot using an ink-jet, an electric, a thermal or a light or beam recording apparatus.
- 358, Facsimile and Static Presentation Processing, subclasses 1.1 through 1.18 for data processing for presentation on a fixed medium, such as paper.

409 Rate updating:

This subclass is indented under subclass 401. Subject matter comprising means for revising a postage rate structure.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 402, for postage meter system comprising means for modifying a basic postage fee to accommodate a particular postage service or condition (e.g., discount, surcharge, adjustment, etc.).

410 Specialized function performed:

This subclass is indented under subclass 401. Subject matter wherein the data processing or calculating computer is programmed to carry out a sequence of instructions related to a pre-determined task associated with the postage meter system.

- (1) Note. Tasks includes input and output distribution, interrupt processing, job scheduling, message transmitting, etc.

411 Display controlling:

This subclass is indented under subclass 410. Subject matter wherein the sequence of instructions is for visually presenting postage related information to an operator.

- (1) Note. Operation for controlling devices solely for producing a "hard copy" (e.g., printer, plotter, etc.) is excluded from this subclass.

- SEE OR SEARCH THIS CLASS, SUB-CLASS:
408, for postage meter system including details of printing mechanism or of information to be printed.
- 412 Utility usage:**
This subclass is indented under subclass 400. Subject matter in which the charges reflect a consumed quantity of power or energy (e.g., electricity, gas, therm, etc.) or water.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
63, for cryptographic utility metering system.
413, for a determined cost/price of a fluid.
- 413 Fluid:**
This subclass is indented under subclass 400. Subject matter in which the charges is determined for a dispensed volume or a delivered quantity of a flowing substance (e.g., liquid or gas).
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
412, for a determined cost/price of a consumed quantity of power or energy.
- 414 Weight:**
This subclass is indented under subclass 400. Subject matter wherein the goods are weighted to determine the charges.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
23, for a point of sale terminal or an electronic cash register having a weighing device.
407, for a postage meter system including weighing means.
- SEE OR SEARCH CLASS:
177, Weighing Scales, subclass 3 and 25.11+ for computing weight with specific structure to the weighing means.
702, Data Processing: Measuring, Calibrating, or Testing, subclasses 101+ for calibrating of weight measurements and subclasses 173+ for a weight measurement system.
- 415 Correcting or compensating:**
This subclass is indented under subclass 414. Subject matter comprising means for obtaining an accurate weight measurement of the goods by means of a zero correction factor, tare weight, or weighing scale motion detection.
- 416 Specific input and output device:**
This subclass is indented under subclass 414. Subject matter comprising details of means for entering or visually presenting information relating to the goods.
- (1) Note. The details include, for example, control panel, input unit with functional keys, reader means, interactive display means, dot matrix printer, cathode ray tubes, etc.
- 417 Distance (e.g., taximeter):**
This subclass is indented under subclass 400. Subject matter wherein the charge is determined using the units of miles or kilometers travelled.
- SEE OR SEARCH CLASS:
235, Registers, subclasses 33+ for fare registers; and subclass 384 for record-sensing devices in combination with means that determine the price based on distance travelled.
702, Data Processing: Measuring, Calibrating, or Testing, subclasses 150+ for orientation or position measurement systems, particularly subclasses 158+ for the measuring of linear distance or length.
- 418 Time (e.g., parking meter):**
This subclass is indented under subclass 400. Subject matter wherein the charges reflect a purchased activity period.
- (1) Note. The charge may include special fee or surcharge due to special time of day or year, location, etc.).
- SEE OR SEARCH CLASS:
368, Horology: Time Measuring Systems or Devices, subclasses 89+ for time interval measuring means.

702, Data Processing: Measuring, Calibrating, or Testing, subclasses 176+ for time duration or rate measuring.

500 MISCELLANEOUS:

This subclass is indented under the class definition. Subject matter not provided for in any of the preceding subclasses of this class.

- (1) Note. This subclass also includes subject matter under the subclass in which the data processing is not clearly described as electrical or being performed by a computer.

SEE OR SEARCH THIS CLASS, SUBCLASS:

50, through 80 for business processing using cryptography.

CROSS-REFERENCE ART COLLECTIONS

901 DIGITAL RIGHTS MANAGEMENT:

This subclass is indented under the class definition. This cross-reference art collection is indented. Subject matter drawn to a system of information technology components (hardware and software) and services designed to distribute and control the rights to intellectual property created or reproduced in digital form for distribution online or via other digital media, in conjunction with corresponding law, policy, and business models.

SEE OR SEARCH THIS CLASS, SUBCLASS:

50, for digital rights management which includes encryption.

902 Licensing digital content:

This cross-reference art collection is indented under cross-reference art collection 901. Subject matter wherein a determination is made that an outside entity has authorized the use of the selection.

SEE OR SEARCH THIS CLASS, SUBCLASS:

59, for licensing which includes encryption.

903 Adding plural layer of rights or limitations by other than the original producer:

This cross-reference art collection is indented under cross-reference art collection 902. Subject matter wherein a party other than the originating source places further restriction or proprietary interest on the use of the selected data.

SEE OR SEARCH THIS CLASS, SUBCLASS:

54, for adding plural layers of rights or limitations by other than the original producer and which also includes encryption.

904 Usage protection of distributed files:

This cross-reference art collection is indented under cross-reference art collection 901. Subject matter wherein the usage of distributed information representing a selection by an individual is controlled.

- (1) Note. Examples of such distribution can be by way of a storage medium such as a CD or by downloading.

SEE OR SEARCH THIS CLASS, SUBCLASS:

51, for usage protection of distributed files which includes encryption.

905 Hardware usage protection:

This cross-reference art collection is indented under cross-reference art collection 904. Subject matter where the mechanical, magnetic, electronic, and electrical components making up a computer system control the usage of distributed files.

906 Requiring a supplemental attachment or input (e.g., dongle, etc.) to open:

This cross-reference art collection is indented under cross-reference art collection 904. Subject matter wherein an auxiliary device or signal interacts with the distributed data file to permit usage.

SEE OR SEARCH THIS CLASS, SUBCLASS:

55, for usage protection of distributed files requiring a supplemental attach-

ment or input to open and which also includes encryption.

907 Specific computer ID (e.g., serial number, configuration, etc.):

This cross-reference art collection is indented under cross-reference art collection 906. Subject matter wherein the interaction uses a signal that describes or is characteristic of a particular data processing system.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

56, for usage protection of distributed files requiring a specific computer ID and which also includes encryption.

908 Software or content usage protection:

This cross-reference art collection is indented under cross-reference art collection 904. Subject matter wherein the usage of a program or other data is controlled.

909 Usage charge determination:

This cross-reference art collection is indented under cross-reference art collection 904. Subject matter including determining the amount of use of the selected information or a cost associated therewith.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

52, for usage charge determination which also includes encryption.

77, through 79, for general electronic commerce system which includes billing.

SEE OR SEARCH CLASS:

380, Cryptography, subclasses 227 through 230 for video electric signal modification using cryptography via record or coin control, and subclasses 231 through 234 for video electric signal modification using cryptography having usage or charge determination.

910 Including third party for collecting or distributing payment (e.g., clearing house, etc.):

This cross-reference art collection is indented under cross-reference art collection 909. Subject matter wherein a third party not associated with the actual distribution of the selected data

is utilized to gather or disperse payment there for.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

53, for systems involving a third party collecting or distributing payment and which further includes encryption.

78, for a secure transaction including a third party.

911 Copy protection or prevention:

This cross-reference art collection is indented under cross-reference art collection 901. Subject matter which prevents rerecording of a distributed data file.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

57, for copy protection or prevention systems which further include encryption.

SEE OR SEARCH CLASS:

380, Cryptography, subclasses 201 through 204 for copy protection or prevention of a video signal.

912 Having origin or program ID:

This cross-reference art collection is indented under cross-reference art collection 911. 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.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

58, for copy protection or prevention systems having origin or program ID and which further include encryption.

FOREIGN ART COLLECTIONS

The definitions below correspond to abolished subclasses from which these collections were formed. See the Foreign Art Collection schedule of this class for specific correspondences. [Note: The titles and definitions for *indented* art collections include all the details of the one(s) that are hierarchically superior.]

FOR 100 For cost/price:

Foreign art collection wherein the data processing system or calculating computer is

designed for or utilized in determining charges for goods or services, or is utilized for the solution of a problem in this area.

FOR 101 Postage meter system:

Foreign art collection for determining cost associated with mailing an article.

FOR 102 Including mailed item weight:

Foreign art collection where the weight of the article to be mailed is used to determine the cost.

FOR 103 Utility usage:

Foreign art collection in which the cost reflects utility (e.g., electricity, gas, water) usage.

FOR 104 Fluid:

Foreign art collection wherein the goods are fluids.

FOR 105 Weight:

Foreign art collection wherein goods are weighed.

FOR 106 Distance or time (e.g., taximeters):

Foreign art collection wherein the cost is per unit of distance or unit of time.

FOR 107 Distribution or redemption of coupon or incentive or promotion program:

Foreign art collection particularly designed for price reduction of premium credit resulting from the purchase of a commodity or service.

- (1) Note. A coupon dispensing or redeeming electronic cash register is classified in this subclass.
- (2) Note. A display or advertising system is included herein.

FOR 108 Electronic shopping (e.g., remote ordering) (705/26):

This foreign art collection is indented under unnumbered placeholder 705/1.1. Foreign art collection drawn to a computerized arrangement which enables a purchaser to inspect from a plurality of different items, or effect a purchase of one or more items at a location geographically separated from the system user.

FOR 109 Presentation of image or description of sales item (e.g., electronic catalog browsing) (705/27):

This foreign art collection is indented under FOR 108. Foreign art collection which includes a feature enabling a user to inspect a listing, or other visual or audible representation of plural items available for purchase.

FOR 110 Operations research (705/7):

This foreign art collection is indented under unnumbered placeholder 705/1.1. Foreign art collection drawn to a computerized arrangement for the systematic and scientific analysis and evaluation of a the operation of an organization or the programmed scheduling of an organization.

FOR 111 Allocating resources or scheduling for an administrative function (705/8):

This foreign art collection is indented under FOR 110. Foreign art collection for the distribution of resources or for scheduling in a business or commercial environment.

FOR 112 Staff scheduling or task assignment (705/9):

This foreign art collection is indented under FOR 111. Foreign art collection for scheduling of or assigning a tasks to an individual or group.

- (1) Note. The designation of an individual may be either by name or other designation, e.g., position.

FOR 113 Market analysis, demand forecasting or surveying (705/10):

This foreign art collection is indented under FOR 110. Foreign art collection including processing of market data in order to predict future demand of a product or service.

- (1) Note. Use of a data processing arrangement in surveying or polling in order to obtain data is included in this subclass.

FOR 114 Job performance analysis (705/11):

This foreign art collection is indented under FOR 110. Foreign art collection which evaluates the efficiency or productivity of an employee or other entity employed by an organization.

FOR 124 Electronic funds transfer (e.g., automatic teller) (380/24):

Foreign art collection under the class definition which encrypts a signal for authorization, or authorization request (e.g., password), for credit or debit of funds to a customer's account.

END