EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1580

DATE: JANUARY 1, 2024

PROJECT RP11851

The following classification changes will be effected by this Notice of Changes:

Action	**Subclass**	**Group(s)**
SCHEME:		
Symbols Deleted:	G01V	1/008
	G01V	5/0008, 5/0016, 5/0025, 5/0033, 5/0041, 5/005, 5/0058, 5/0066, 5/0069, 5/0075, 5/0083, 5/0091
	G01V	99/005
Symbols New:	G01V	1/01
	G01V	5/20, 5/22, 5/222, 5/223, 5/224, 5/226, 5/228, 5/232, 5/234, 5/26, 5/271, 5/281
	G01V	20/00
Titles Changed:	G01V	SUBCLASS
	G01V	1/001, 1/003, 1/006, 1/28, 1/288, 1/38, 1/3808
	G01V	5/00
Notes New:	G01V	20/00
DEFINITIONS:		
Definitions Deleted: (no frozen (F) symbol definitions should be deleted)	G01V	1/008
	G01V	5/0008
Definitions New:	G01V	1/01, 1/18
	G01V	5/20, 5/22, 5/222, 5/26,
	G01V	20/00
Definitions Modified:	G01V	subclass
	G01V	1/00, 1/001, 1/003, 1/28, 1/38, 1/40
	G01V	7/00, 7/04
	G01V	9/00
	G01V	11/00
	G01V	15/00
	G01V	99/00

The following subclasses/groups are also impacted by this Notice of Changes (indicate subclasses/groups outside of the project scope, such as those listed in the CRL): A61B6/00, B64F1/366, G01T1/1611, G01T1/1615, G01T1/249, G01T3/00, G01T7/00

This Notice of Changes includes the following *[Check the ones included]:*

CPC NOTICE OF CHANGES 1580

DATE: JANUARY 1, 2024

PROJECT RP11851

1. CLASSIFICATION SCHEME CHANGES
    - ☒ A. New, Modified or Deleted Group(s)
    - ☐ B. New, Modified or Deleted Warning(s)
    - ☒ C. New, Modified or Deleted Note(s)
    - ☐ D. New, Modified or Deleted Guidance Heading(s)
2. DEFINITIONS
    - ☒ A. New or Modified Definitions (Full definition template)
    - ☒ B. Modified or Deleted Definitions (Definitions Quick Fix)
3. ☒ REVISION CONCORDANCE LIST (RCL)
4. ☒ CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5. ☒ CHANGES TO THE CROSS-REFERENCE LIST (CRL)

CPC NOTICE OF CHANGES 1580

DATE: JANUARY 1, 2024

PROJECT RP11851

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS G01V - GEOPHYSICS;GRAVITATIONAL MEASUREMENTS;DETECTING MASSES OR OBJECTS;TAGS

Type*	**Symbol**	**Indent Level Number of dots (e.g. 0, 1, 2)**	**Title "CPC only" text should normally be enclosed in {curly brackets}****	**Transferred to#**
M	G01V	Subclass	GEOPHYSICS; GRAVITATIONAL MEASUREMENTS; DETECTING MASSES OR OBJECTS; TAGS (means for indicating the location of accidentally buried, e.g. snow-buried, persons A63B 29/02)	
U	G01V1/00	0	Seismology; Seismic or acoustic prospecting or detecting	
M	G01V 1/001	1	{Acoustic presence detection}	
M	G01V 1/003	1	{Seismic data acquisition in general, e.g. survey design (G01V 1/3808, G01V 1/42 take precedence)}	
M	G01V1/006	2	{generating single signals by using more than one generator, e.g. beam steering or focusing arrays (G01V 1/13, G01V 1/3861 take precedence)}	
D	G01V1/008	1	{Earthquake measurement or prediction (event detection for microseismic events G01V1/288)}	<administrative transfer to G01V1/01>
N	G01V1/01	1	Measuring or predicting earthquakes	
M	G01V1/28	1	Processing seismic data, e.g. for interpretation or for event detection (G01V1/48 takes precedence)	
M	G01V1/288	2	{Event detection in seismic signals, e.g. microseismics (G01V1/36 takes precedence)}	
M	G01V 1/38	1	specially adapted for water-covered areas (G01V 1/28 takes precedence)	
M	G01V 1/3808	2	{Seismic data acquisition, e.g. survey design}	
M	G01V5/00	0	Prospecting or detecting by the use of ionising radiation, e.g. of natural or induced radioactivity	
D	G01V 5/0008	1	{Detecting hidden objects, e.g. weapons, explosives (sorting of materials or articles according to radioactive properties B07C 5/342; investigating or analysing materials by the use of wave or particle radiation G01N 23/00)}	<administrative transfer to G01V5/20>
D	G01V5/0016	2	{Active interrogation, i.e. using an external radiation source, e.g. using pulsed, continuous or cosmic rays}	<administrative transfer to G01V5/22>

D	G01V5/0025	3	{Measuring scattered radiation}	<administrative transfer to G01V5/222>
D	G01V5/0033	3	{Mixed interrogation beams, e.g. using more than one type of radiation beam}	<administrative transfer to G01V5/223>
D	G01V5/0041	3	{Multiple energy techniques using one type of radiation, e.g. X-rays of different energies (multi-beam applications, e.g. X-rays and neutrons G01V5/0033; spectroscopic applications G01V5/0016)}	<administrative transfer to G01V5/224>
D	G01V5/005	3	{using Tomography, e.g. CT or SPECT (detector details in CT applications G01T1/2985)}	<administrative transfer to G01V5/226>
D	G01V5/0058	3	{using stereoscopic means}	<administrative transfer to G01V5/228>
D	G01V5/0066	3	{having relative motion between the source, detector and object other than by conveyor (G01V5/005 takes precedence)}	<administrative transfer to G01V5/232>
D	G01V5/0069	3	{Measuring induced radiation, e.g. thermal neutron activation analysis (investigating or analysing materials by the use of neutrons G01N23/222)}	<administrative transfer to G01V5/234>
D	G01V5/0075	2	{Passive interrogation (for hand, feet or portals G01T1/167; for contaminated surface areas G01T1/169)}	<administrative transfer to G01V5/26>
D	G01V5/0083	2	{utilizing a network, e.g. a remote expert, accessing remote data or the like}	<administrative transfer to G01V5/271>
D	G01V5/0091	2	{detecting special nuclear material [SNM], e.g. Uranium-235, Uranium-233 or Plutonium-239}	<administrative transfer to G01V5/281>
U	G01V5/145	4	{using a neutron source combined with a gamma- or X-ray source}	
N	G01V5/20	1	Detecting prohibited goods, e.g. weapons, explosives, hazardous substances, contraband or smuggled objects	
N	G01V5/22	2	Active interrogation, i.e. by irradiating objects or goods using external radiation sources, e.g. using gamma rays or cosmic rays	
N	G01V5/222	3	measuring scattered radiation	
N	G01V5/223	3	{Mixed interrogation beams, e.g. using more than one type of radiation beam}	
N	G01V5/224	3	{Multiple energy techniques using one type of radiation, e.g. X-rays of different energies}	
N	G01V5/226	3	using tomography	
N	G01V5/228	3	{using stereoscopic means}	
N	G01V5/232	3	{having relative motion between the source, detector and object other than by conveyor (G01V5/226 takes precedence)}	
N	G01V5/234	3	{Measuring induced radiation, e.g. thermal neutron activation analysis}	
N	G01V5/26	2	Passive interrogation, i.e. by measuring radiation emitted by objects or goods	

N	G01V 5/271	2	{using a network, e.g. a remote expert, accessing remote data or the like}	
N	G01V 5/281	2	{detecting special nuclear material [SNM], e.g. Uranium-235, Uranium-233 or Plutonium-239}	
N	G01V20/00	0	Geomodelling in general	
U	G01V99/00	0	Subject matter not provided for in other groups of this subclass	
D	G01V99/005	1	{Geomodels or geomodelling, not related to particular measurements}	<administrative transfer to G01V20/00>

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; T = existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- **No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required "anchor" symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- "Transferred to" column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the "Transferred to" column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: "<administrative transfer to XX>", "<administrative transfer to XX and YY simultaneously>", or "<administrative transfer to XX, YY, ...and ZZ simultaneously>" when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be "additional information".
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations "ADD" or "INV": <administrative transfer to XX ADD> , <administrative transfer to XX INV>, or <administrative transfer to XX ADD, YY

C. New, Modified or Deleted Note(s)

SUBCLASS G01V - GEOPHYSICS;GRAVITATIONAL MEASUREMENTS;DETECTING MASSES OR OBJECTS;TAGS

Type*	Location	Old Note	New/Modified Note
N	G01V 20/00		This group covers geomodelling or geomodels wherein no prospecting, detecting or measuring technique is specified or relevant.

*N = new note, M = modified note, D = deleted note

NOTE: The "Location" column only requires the symbol PRIOR to the location of the note. No further directions such as "before" or "after" are required.

2. A. DEFINITIONS (New)

G01V 1/01

Relationships with other classification places

This group covers the processing of seismic data for detection or prediction of earthquakes whereas G01V 1/28 covers seismic signal processing, including the processing for the detection of seismic or microseismic events.

References

Informative references

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

Alarms responsive to calamitous events, e.g. tornados or earthquakes	G08B 21/10
Earthquake and tsunami warning systems [ETWS]	H04W 4/90

G01V 1/18

References

Informative references

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

Microphones or like acoustic electromechanical transducers	H04R

G01V 5/20

Definition statement

This place covers:

The detection of objects using ionising radiation for the purpose of preventing contraband or smuggling.

The ionising radiation scanning of equipment to prevent the bringing of forbidden objects into restricted areas.

Relationships with other classification places

This group is an application-oriented place that covers the specific application of detecting contraband, smuggling or attempts to carry concealed and forbidden objects (e.g. weapons or explosives) into restricted areas (e.g. the secure zones of airports).

G01N 23/00 is instead the function-oriented place covering the investigation of materials (e.g. the detection of contamination in industrial production lines) per se, whereas G01T is the function-oriented place covering radiation detectors per se.

References

Informative references

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

Investigating or analysing materials by the use of wave or particle radiation, e.g. X-rays or neutrons	G01N 23/00
Measurement of nuclear or X-radiation per se	G01T

G01V5/22

Definition statement

This place covers:

The detection of hidden objects by irradiating the equipment or person presumed to carry concealed objects with ionising radiation. The ionising radiation source can be natural or artificial, but is external to the inspected equipment.

The detection of hidden objects by inducing secondary emission through irradiation by an external source, e.g. neutron activation or X-ray fluorescence.

Glossary of terms

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

Active	Using ionising radiation impinging from an external source

G01V5/222

References

Informative references

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

Investigating or analysing materials by using scattering of the radiation by the materials	G01N 23/20

G01V5/26

Definition statement

This place covers:

The detection of hidden objects by detecting the ionising radiation emanating from them.

Relationships with other classification places

Relative to G01T 1/167 (“Measuring radioactive content of objects”), this group is application-oriented, that is, it is restricted to measuring the radioactive content of objects, with the aim of identifying concealed radioactive objects within other objects, packages or equipment.

When the aim of the measurement is prospection to identify minerals containing radioactive elements, classification is made either in G01V 5/02 for surface logging or G01V 5/06, when well-logging is performed.

References

Informative references

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

Measuring radioactive content of objects, e.g. contamination	G01T1/167

Detection arrangements for nuclear explosions	G21J 5/00

Glossary of terms

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

Passive	Using ionising radiation originating from the object to be detected

G01V 20/00

Definition statement

This place covers:

The modelling of geological structures or phenomena, where the model is expressed in terms of variables that are largely independent from measured quantities associated with specific techniques. Elements of the model (e.g. formation layer compositions) may have been obtained from a specific technique, but the modelling does not directly use peculiarities from that specific technique, and the output of this modelling is not expressed in terms of the variables of that specific technique. In other words, the geomodelling covered in this group may make use of specific geophysical techniques (seismic, electromagnetic, etc.), but these specific geophysical techniques only provide black box inputs to the geomodel covered in this group.

Relationships with other classification places

Modelling based on seismic variables (e.g. behaviour of S-waves or P-waves) is classified in G01V 1/30, or in G01V 1/01 if the purpose of the modelling is to make predictions about earthquakes. When seismic data are involved, classification is performed in this group only if the model has been re-expressed in terms of more basic variables (e.g. stress or density) that are no longer necessarily tied to seismology.

References

Application-oriented references

Example of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a large system:

Earthquake prediction	G01V 1/01

Informative references

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

Automatic control systems specially adapted for drilling operations, e.g. computer-controlled drilling systems; Systems specially adapted for monitoring a plurality of drilling variables or conditions	E21B 44/00
Processing seismic data	G01V 1/28
Digital computing or data processing equipment or methods, specially adapted for solving equations	G06F17/11
Digital computing or data processing equipment or methods, specially adapted for matrix or vector computation	G06F17/16
Computational materials science	G16C 60/00

2. A. DEFINITIONS (Modified)

G01V

Definition statement

Replace: The existing Definition statement with the updated text below.

Methods and apparatus for geophysical purposes such as

Seismic measurements, including the generation of seismic energy, the detection of seismic signals and their processing.

Measuring the magnetic or electric field of the earth or its modification by geological structures.

Measuring the gravitational field of the earth or its modification by geological structures.

Prospecting or detecting of masses or objects in general, e.g. by seismic, electric, magnetic, gravimetric or optical means, or by the use of nuclear radiation.

Measuring gravitational fields or waves in general, e.g. gravitational forces between two bodies, or gravitational waves of cosmic origin.

Manufacturing, calibrating, cleaning, or repairing such apparatus.

Tags attached to, or associated with, an object, in order to enable detection of the object.

Geophysical modelling, whether or not related to the measurement of a physical parameter.

In this subclass, the geophysical methods apply both to the earth and to other celestial objects, e.g. planets.

Relationships with other classification places

Replace: The existing Relationships with other classification places text with the updated text below.

The general subject matter for locating or detecting masses or objects is covered by several subclasses besides G01V: G01S, G01C.

This subclass covers radar, sonar, lidar or analogous systems specifically designed for geophysical use. Radar, sonar, lidar or analogous systems, or details of such systems, if of general interest, are covered by subclass G01S.

This subclass also covers geophysical modelling, whether or not related to the measurement of a physical parameter. Other fields, involving geophysical modelling are E21B and G06F.

In general, documents relating to the functional aspects of the modelling per se, e.g. finite difference modelling, should be classified in the G06F17/00. Fluid flow simulation and modelling which is not application specific, e.g. using specialized computer or software, is covered by G06F30/23.

Documents relating to the application aspects of the modelling of physical system or processes should be classified in their application field, that is G01V for geophysics and seismics and E21B for oil production.

More in particular, models relating to the state of the subsurface/formation, e.g. sedimentation models should be classified in G01V 20/00 Geomodelling in general, as this is considered the application field of exploration.

Models used when processing seismic data in general should be classified in G01V1/28. Models used for velocity profiles should be classified in G01V1/303.

Modelling related to production of reservoir fluids, e.g. fluid flow models, should be classified in E21B.

Equally, analysis of models for production or simulated production are classified in E21B, like e.g. risk analysis, production forecast, net present value [NPV].

Burglar, theft or intruder alarms actuated by interference with electromagnetic radiation or fields are classified in G08B 13/18 and G08B 13/24.

References

Insert: The following new Application-oriented references section and table.

Application-oriented references

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

Detecting or locating foreign bodies for diagnostic, surgical or person-identification purposes	A61B

Informative references

Delete: The reference row for symbol A61B

Insert: The following new row to the Informative references table"

Magnetic resonance arrangement in general	G01R 33/20

Special rules of classification

Insert: The new Special rules of classification section and text.

References G01S and G08B 13/00 are non-limiting in the subclass G01V. CPC will be updated/corrected once this inconsistency is resolved in IPC.

Glossary of terms

Insert: The new Glossary of terms section and table.

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

tags	means arrangements cooperating with a detecting field, e.g. near field, and designed to produce a specific detectable effect; "tags" also means active markers or labels capable of generating a detectable field; tags are not to be confused with transponders (cf Glossary of G01S)
transpondeur	means an arrangement which reacts to an incoming interrogating or detecting wave by emitting a specific answering or identifying wave.

Synonyms and Keywords

Insert: The following new Synonyms and Keywords section and table.

In patent documents, the word/expression in the first column is often used instead of the word/expression in the second column, which is used in the classification scheme of this place:

electronic label, electronic marker	tag

G01V 1/00

Definition statement

Replace: The existing Definition statement with the updated one below.

Seismic measurements, including the generation of seismic energy, the detection of seismic signals or their processing.

Presence detection by acoustical means.

Earthquake detection or prediction.

Relationships with other classification places

Insert: The following new Relationships with other classification places section and text.

This group covers the processing of seismic data for detection or prediction of earthquakes, whereas G01V 1/28 covers seismic signal processing, including the processing for the detection of seismic or microseismic events.

References

Delete: The Limiting references section and table.

Informative references

Replace: The existing Informative references table with the updated one below.

Survey of boreholes or wells	E21B 47/00

Measurement of mechanical vibrations or ultrasonic, sonic or infrasonic waves	G01H
Investigating or analysing materials by the use of ultrasonic, sonic or infrasonic waves; Visualisation of the interior of objects by transmitting ultrasonic or sonic waves through the object	G01N 29/00
Alarms responsive to calamitous events, e.g. tornados or earthquakes	G08B 21/10
Methods or devices for transmitting, conducting or directing sound in general	G10K 11/00
Sonar systems	G01S 15/00
Microphones or like acoustic electromechanical transducers	H04R
Earthquake and tsunami warning systems [ETWS]	H04W 4/90

Delete: The Special rules of classification section and text.

G01V 1/001

Relationships with other classification places

Replace: The existing text in the Relationships with other classification places section with the updated text below.

This subgroup covers the passive detection of "presence", i.e. availability/existence of an object or a person, e.g. in a room, by the sound produced.

The term "presence" is not to be confused with the term "event" as is used in other subgroups of G01V 1/00. The term "event" refers to an occurrence of an acoustic effect, for example in earthquake detection (G01V 1/01) or in microseismics (G01V 1/288).

References

Delete: The Limiting references section and table.

Informative references

Replace: The existing Informative references table with the updated one below.

Measuring of sonic vibrations	G01H

Burglar, theft, or intruder alarms actuated by interference with mechanical vibrations using passive vibration detection system	G08B 13/1654
Alarm systems	G08B

G01V 1/003

Definition statement

Replace: The existing Definition statement with the updated text below.

General design of seismic surveys.

Use of special signals, e.g. for slip sweep arrangements, swept signals or pseudo-random codes.

Use of plurality of generators for generating single coherent signals.

References

Limiting references

Delete: The following row from the Limiting references table:

Control of marine source arrays	G01V1/3861

Informative references

Insert: The following new row to the Informative references table:

Control of marine source arrays	G01V1/3861

G01V 1/28

References

Limiting references

Delete: The following row from the Limiting references table:

4D effects related to the fluid flow per se	E21B47/00

Informative references

Insert: The following new row to the Informative references table:

4D effects related to the fluid flow per se	E21B 47/00

Special rules of classification Informative references

Replace: The existing Special rules of classification text with the updated text below:

Subject matter relating to application in a marine environment should also be classified as additional information under G01V1/38.

Subject matter relating to application in a borehole environment should also be classified as additional information under G01V1/40.

For details which are not covered by specific subgroups of G01V1/28, the Orthogonal Indexing Codes G01V2210/00 and subcodes should be applied.

For further details, including details which may already be covered by specific subgroups of G01V1/28, the Orthogonal Indexing Codes G01V2210/00 and subcodes should also be applied.

G01V2210/00 covers "Details of seismic processing or analysis", e.g.:

Aspects of acoustic signal generation or detection.

Trace signal pre-filtering to select, remove or transform specific events or signal components, i.e. trace in and trace out.

Noise handling.

Transforming data representation.

Corrections and adjustments related to wave propagation.

Analysis.

Other details related to processing.

G01V 1/38

Definition statement

Replace: The existing Definition statement text with the updated text below:

Marine seismic data acquisition. This also covers survey design.

Positioning of marine seismic devices, including determining the position.

Deployment of marine seismic devices, i.e. bringing into position prior to use, of streamers, ocean bottom cables [OBC] or nodes.

Control of source arrays, e.g. for far field control.

References

Limiting references

Delete: The following rows from the Limiting references table:

Constructional details of marine seismic streamers	G01V1/201
Marine VSP	G01V1/42

Informative references

Replace: The informative refences table with the updated one below:

Equipment for marine deployment in general	B63B
Control of attitude or depth of underwater vessels	B63G
Seismic data acquisition in general	G01V1/003
Constructional details of marine seismic streamers	G01V 1/201
Marine VSP	G01V1/42

G01V 1/40

Definition statement

Replace: The existing Definition statement text with the updated text below:

Seismic or acoustic well-logging:

- Seismic logging in this group concerns investigation of the formation as a whole extending far away from the borehole, e.g. VSP or inter-well seismic tomography.

- Acoustic logging in this group concerns close range investigations of the vicinity of the borehole.
- Structural details directly related to acoustic and seismic well-logging.

Relationships with other classification places

Insert: A period at the end of the second sentence, so that the text reads as follows:

Acoustic logging in G01V1/00 concerns close range investigations of the vicinity of the borehole. Acoustic logging of the borehole itself is covered by E21B47/00.

References

Delete: The Limiting references section and table.

Informative references

Replace: The existing Informative references table with the updated table below:

Survey of boreholes or wells	E21B 47/00
VSP seismic processing and analysis	G01V 1/28
Structural details for well-logging in general	G01V11/002

Special rules of classification

Replace: The Special rules of classification text with the updated text below:

Further constructional details should be classified as additional information in G01V1/523 or G01V1/52.

G01V7/00

References

Delete: The Limiting references section and table.

Informative references

Insert: The following new row to the Informative references table:

Weighing	G01G

G01V7/04

References

Delete: The Limiting references section and table.

Insert: The following new Informative references section and table.

Informative references

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

Indicating or recording measured values in general	G01D

G01V9/00

Definition statement

Replace: The existing Definition statement text with the updated text below.

Prospecting or detecting by a specific measuring method, other than those, provided for in groups G01V1/00 - G01V8/00,

like:

by parascientific methods,

by thermal methods,

by detection of gases representative of underground layers, e.g. for seep detection or the determination of underground water existence or flow.

References

Delete: The Limiting references section and table.

Informative references

Insert: The new Informative references section and table.

Prospecting or detecting when the measuring method is irrelevant	G01V11/00
Geomodelling in general	G01V 20/00
Prospecting or detecting, where no measuring method is involved (e.g. model building)	G01V99/00

References out of a residual place

Insert: The following new rows to the References out of a residual place table.

Measuring or predicting earthquakes	G01V1/01
Measuring induced radiation, e.g. thermal neutron activation analysis	G01V 5/234

Special rules of classification

Replace: The existing Special rules of classification text with the updated text below.

Further details of subgroups

G01V9/002:
This subgroup covers prospecting and detecting by parascientific methods, or by methods that are not based on formal science.

Parascientific features take precedence over features from other groups in G01V, e.g. if a dowsing tool makes use of magnets, it would be classified in G01V9/002.

G01V9/005:
In this subgroup, infrared radiation is used as an indicator of local temperature, e.g. for thermal imaging. If it is used as the optical beam of a light curtain, the document should be classified in G01V8/00.

G01V9/007:
Analysing earth materials: G01N33/24
Analysing gases per se: G01N

G01V11/00

References

Delete: The Limiting references section and table.

Delete: The text under the table labelled “Further details of subgroups.”

Special rules of classification

Insert: The following new Special rules of classification section and text.

Further details of subgroups

G01V11/002:
Transmission systems, specifically adapted for use in a borehole.
Components of downhole systems.

Transmission systems, suitable for both logging signals (i.e. G01V) and well survey signals (i.e. E21B) are classified in this group.

Transmission of seismic signals as such is classified in G01V1/22.
Signal transmission in general: H04B.

G01V11/005:

This subgroup contains means for locking sondes against the borehole wall, means for centralising sondes in the borehole and means for determining the position and orientation of logging tools.

Combinations of measurement tools with locking mechanisms, e.g. in order to provide a better acoustical or electrical contact with the borehole wall, are classified in the appropriate class for the measurement method.

G01V11/007:

When the seismo-electric effect is used for the purpose of earthquake prediction, the document should only be classified in G01V1/01.

G01V15/00

References

Delete: The Limiting references section and table.

Insert: The following new row to the Informative references table:

Informative references

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

Record carriers for use with machines and with at least a part designed to carry digital markings (e.g. RFID)	G06K19/00

Insert: The following new Special rules of classification section and text.

Special rules of classification

Reference G06K 19/00 is non-limiting in the subclass G01V. CPC will be updated/corrected once this inconsistency is resolved in IPC.

Glossary of terms

Replace: The existing Glossary of terms table with the updated one below.

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

tags	means arrangements cooperating with a detecting field, e.g. near field, and designed to produce a specific detectable effect; "tags" also means active markers or labels capable of generating a detectable field; tags are not to be confused with transponders (cf Glossary of G01S)

G01V99/00

References

Delete: The Limiting references section and table.

Insert: The following new Informative references section and table.

Informative references

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

Models for seismic processing	G01V1/282
Velocity profiles	G01V1/303
Modelling, related to reservoir fluids, e.g. fluid flow models	E21B
Modelling algorithms per se	G06F17/00

2. B. DEFINITIONS QUICK FIX

Symbol	**Location of change** (e.g., section title)	**Existing reference symbol or text**	**Action; New symbol; New text**
G01V1/008			Delete the entire definition
G01V5/0008			Delete the entire definition

Notes:

Use this Definitions Quick Fix (DQF) table to:

- Delete an entire definition
- Delete an entire section
- Change a reference symbol
- Delete a reference symbol
- Delete text in a References section
- Correct one error in spelling, article use, or verb tense

Otherwise, use the standard template.

Reminder: Never delete F symbol definitions.

3. REVISION CONCORDANCE LIST (RCL)

Type*	**From CPC Symbol (existing)**	**To CPC Symbol(s)**
D	G01V 1/008	<administrative transfer to G01V 1/01>
D	G01V 5/0008	<administrative transfer to G01V 5/20>
D	G01V 5/0016	<administrative transfer to G01V 5/22>
D	G01V 5/0025	<administrative transfer to G01V 5/222>
D	G01V 5/0033	<administrative transfer to G01V 5/223>
D	G01V 5/0041	<administrative transfer to G01V 5/224>
D	G01V 5/005	<administrative transfer to G01V 5/226>
D	G01V 5/0058	<administrative transfer to G01V 5/228>
D	G01V 5/0066	<administrative transfer to G01V 5/232>
D	G01V 5/0069	<administrative transfer to G01V 5/234>
D	G01V 5/0075	<administrative transfer to G01V 5/26>
D	G01V 5/0083	<administrative transfer to G01V 5/271>
D	G01V 5/0091	<administrative transfer to G01V 5/281>
D	G01V 99/005	<administrative transfer to G01V 20/00>

* C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the "To" column, do not use ranges of symbols.
- For administrative transfer of documents, the following text should be used: "< administrative transfer to XX>", "<administrative transfer to XX and YY simultaneously>", or "<administrative transfer to XX, YY, ...and ZZ simultaneously>" when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be "additional information".
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations "ADD" or "INV": <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the "D" entries of 2000-series or Y-series groups may not require a destination ("To") symbol, however it is required to specify "<no transfer>" in the "To" column for such cases.
- RCL is not needed for finalisation projects.

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

CPC	**IPC**	**Action***
G01V 1/008		DELETE
G01V 1/01	G01V 1/01	NEW
G01V 5/0008		DELETE
G01V 5/0016		DELETE
G01V 5/0025		DELETE
G01V 5/0033		DELETE
G01V 5/0041		DELETE
G01V 5/005		DELETE
G01V 5/0058		DELETE
G01V 5/0066		DELETE
G01V 5/0069		DELETE
G01V 5/0075		DELETE
G01V 5/0083		DELETE
G01V 5/0091		DELETE
G01V 5/20	G01V 5/20	NEW
G01V 5/22	G01V 5/22	NEW
G01V 5/222	G01V 5/222	NEW
G01V 5/223	G01V 5/22	NEW
G01V 5/224	G01V 5/22	NEW
G01V 5/226	G01V 5/226	NEW
G01V 5/228	G01V 5/22	NEW
G01V 5/232	G01V 5/22	NEW
G01V 5/234	G01V 5/22	NEW
G01V 5/26	G01V 5/26	NEW
G01V 5/271	G01V 5/20	NEW
G01V 5/281	G01V 5/20	NEW
G01V 20/00	G01V 20/00	NEW
G01V 99/005		DELETE

*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with “NEW.”
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with “UPDATED.”
- For a (D) CPC entry or indexing entry complete the Action column with “DELETE.” IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with “NEW”.
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with “CPCONLY” and complete the action column with “NEW”.

NOTES:

- F symbols are not included in the CICL table above.
- T and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.

5. CROSS-REFERENCE LIST (CRL)

Scheme references impacted by this revision project

Location of reference to be changed	Referenced subclass or group to be changed	Action; New reference symbol; New text
G01T 1/1611	G01V5/0008	Replace symbol "G01V 5/0008" and associated text with: detecting prohibited goods, e.g. weapons, explosives, hazardous substances, contraband or smuggled objects G01V 5/20
G01T 1/1615	G01V5/0008	Replace symbol "G01V 5/0008" and associated text with: detecting prohibited goods, e.g. weapons, explosives, hazardous substances, contraband or smuggled objects G01V 5/20
G01T 1/249	G01V5/0008	Replace symbol "G01V 5/0008" and associated text with: detecting prohibited goods, e.g. weapons, explosives, hazardous substances, contraband or smuggled objects G01V 5/20

Definitions references impacted by this revision project

Location of reference to be changed	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol; New text
A61B 6/00	G01V 5/0008	INF	Replace symbol "G01V 5/0008" and associated text with: Detecting prohibited goods, e.g. weapons, explosives, hazardous substances, contraband or smuggled objects G01V 5/20
B64F 1/366	G01V 5/0008	INF	Replace symbol "G01V 5/0008" and associated text with: Detecting prohibited goods, e.g. weapons, explosives, hazardous substances, contraband or smuggled objects G01V 5/20
G01T 3/00	G01V 5/0008	INF	Replace symbol "G01V 5/0008" and associated text with: Detecting prohibited goods, e.g. weapons, explosives, hazardous substances, contraband or smuggled objects G01V 5/20
G01T 7/00	G01V 5/0008	INF	Replace symbol "G01V 5/0008" and associated text with:

			Detecting prohibited goods, e.g. weapons, explosives, hazardous substances, contraband or smuggled objects G01V 5/20

NOTES:

- The CRL tables above are used for changes to locations **outside** of the project scope. Changes to references in scheme titles or definitions inside the project scope will be reflected in the "scheme change" template or one of the "definition" templates.
- In addition to other changes proposed in the tables above, in the column titled "Referenced subclass or group to be changed," **referenced** D symbols should indicate an action of "delete" or should indicate a replacement symbol and **referenced** F symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.