CPC COOPERATIVE PATENT CLASSIFICATION

G PHYSICS

(NOTES omitted)

INSTRUMENTS

G01 MEASURING; TESTING

(NOTES omitted)

G01V GEOPHYSICS; GRAVITATIONAL MEASUREMENTS; DETECTING MASSES OR OBJECTS; TAGS (means for indicating the location of accidentally buried, e.g. snow-buried, persons A63B 29/02)

NOTES

- 1. This subclass <u>covers</u> radar, sonar, lidar or analogous systems specifically designed for geophysical use. Radar, sonar, lidar or analogous systems, or details of such systems, if of a general interest, are also classified in subclass <u>G01S</u>.
- 2. In this subclass, the following term is 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 capable of generating a detectable field.
- 3. In this subclass, the geophysical methods apply both to the earth and to other celestial objects, e.g. planets.
- 4. Attention is drawn to the Notes following the title of class <u>G01</u>.

WARNINGS

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
 G01V 3/11 covered by G01V 3/101, G01V 3/104

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00	Seismology; Seismic or acoustic prospecting or detecting	1/104 • using explosive charges (G01V 1/157 takes precedence)
	NOTE	1/108 by deforming or displacing surfaces of enclosures
	Groups <u>G01V 1/44</u> - <u>G01V 1/52</u> take precedence over groups <u>G01V 1/001</u> - <u>G01V 1/393</u> <u>G01V 1/42</u>	1/112 for use on the surface of the earth 1/116 where pressurised combustion gases escape
1/001	• {Acoustic presence detection}	from the generator in a pulsating manner, e.g. for generating bursts
1/003	• {Seismic data acquisition in general, e.g. survey design (G01V 1/3808, G01V 1/42 take precedence)}	1/13 Arrangements or disposition of charges to produce a desired pattern in space or time
1/005	• • {with exploration systems emitting special signals, e.g. frequency swept signals, pulse	1/133 • using fluidic driving means, e.g. highly pressurised fluids; {using implosion}(G01V 1/104 takes precedence)
1/006	 sequences or slip sweep arrangements} • {generating single signals by using more than one generator, e.g. beam steering or focusing arrays (G01V 1/13, G01V 1/3861 take precedence)} 	1/135 by deforming or displacing surfaces of enclosures {, e.g. by hydraulically driven vibroseis TM }
1/01 1/02	 Measuring or predicting earthquakes Generating seismic energy {(G01V 1/003 takes) 	1/137 which fluid escapes from the generator in a pulsating manner, e.g. for generating bursts {, airguns}
1/04 1/047	precedence)}DetailsArrangements for coupling the generator to the	1/143 • using mechanical driving means {, e.g. motor driven shaft}(<u>G01V 1/104</u> , <u>G01V 1/133</u> take precedence)
1/0475	ground {for controlling "Ground Force"}	1/145 by deforming or displacing surfaces {, e.g. by mechanically driven vibroseis TM }
1/053	for generating transverse waves	1/147 using impact of dropping masses
1/06	Ignition devices (<u>G01V 1/393</u> takes	1/153 using rotary unbalanced masses
1/08	precedence) involving time-delay devices	1/155 using reciprocating masses
1/08	 Transporting arrangements, e.g. on vehicles (G01V 1/38 takes precedence) 	1/157 using spark discharges; using exploding wires

1/159	• • {using piezoelectric or magnetostrictive driving means (generating mechanical vibrations by using	1/303	• • • {for determining velocity profiles or travel times}
	piezoelectric or magnetostrictive effect in general,	1/305	{Travel times}
	<u>B06B 1/06, B06B 1/08</u>)}	1/306	• • • {for determining physical properties of the
1/16	Receiving elements for seismic signals;		subsurface, e.g. impedance, porosity or
	Arrangements or adaptations of receiving elements		attenuation profiles}
1/162	• • {Details}	1/307	• • • {for determining seismic attributes, e.g.
1/164	{Circuits therefore}		amplitude, instantaneous phase or frequency,
1/166	• • • {Arrangements for coupling receivers to the		reflection strength or polarity}
	ground}	1/308	• • • {Time lapse or 4D effects, e.g. production
1/168	• • {Deployment of receiver elements (<u>G01V 1/3843</u>		related effects to the formation (fluid flow per
	takes precedence)}		<u>se</u> <u>E21B 47/00</u>)}
1/18	Receiving elements, e.g. seismometer, geophone	1/32	Transforming one recording into another {or one
	{or torque detectors, for localised single point		representation into another}
	measurements}	1/325	• • • {Transforming one representation into another}
1/181	{Geophones}	1/34	Displaying seismic recordings {or visualisation of
1/182	• • • • {with moving coil}		seismic data or attributes}
1/183	• • • { with moving magnet }	1/345	• • • {Visualisation of seismic data or attributes, e.g.
1/184	• • • {Multi-component geophones}		in 3D cubes}
1/185	• • • {with adaptable orientation, e.g. gimballed}	1/36	Effecting static or dynamic corrections on
		1,00	records, e.g. correcting spread; Correlating
1/186	{Hydrophones}		seismic signals; Eliminating effects of unwanted
1/187	• • • • {Direction-sensitive hydrophones}		energy
1/188	• • • { with pressure compensating means }	1/362	• • • {Effecting static or dynamic corrections;
1/189	{Combinations of different types of receiving	1/302	Stacking }
	elements}	1/364	• • • {Seismic filtering (G01V 1/37 takes
1/20	 Arrangements of receiving elements, e.g. 	1/304	
	geophone pattern	1/266	precedence)}
1/201	• • • {Constructional details of seismic cables, e.g.	1/366	• • • {by correlation of seismic signals}
	streamers (integrated optoseismic systems	1/368	{Inverse filtering}
	G01V 1/226; line connectors in general	1/37	specially adapted for seismic systems using
	<u>H01R</u> , transducer mountings in general		continuous agitation of the ground {, e.g. using
	<u>G10K 11/004</u>)}		pulse compression of frequency swept signals
1/202	• • • {Connectors, e.g. for force, signal or power}		for enhancement of received signals}
2001/204	• • • • {Reinforcements, e.g. by tensioning cables}	1/375	{Correlating received seismic signals with
2001/205	{Internal damping}		the emitted source signal}
2001/207	{Buoyancy}	1/38	 specially adapted for water-covered areas
1/208	• • • {having a continuous structure (detecting		(G01V 1/28 takes precedence)
1,200	traffic <u>G08G</u> , transducers in general <u>G10K</u>)}	1/3808	• • {Seismic data acquisition, e.g. survey design}
1/22	Transmitting seismic signals to recording or	1/3817	• • {Positioning of seismic devices}
1,22	processing apparatus	1/3826	• • • {dynamic steering, e.g. by paravanes or birds}
1/223	• • {Radioseismic systems}	1/3835	• • • {measuring position, e.g. by GPS or
1/226	{ Optoseismic systems } {Optoseismic systems }		acoustically}
	* *	1/3843	• • {Deployment of seismic devices, e.g. of streamers
1/24	Recording seismic data		(equipment for marine deployment in general
1/242	• • {Seismographs}		B63B)}
1/245	• • {Amplitude control for seismic recording (control	1/3852	{to the seabed}
	of amplification in general <u>H03G</u>)}	1/3861	• • {control of source arrays, e.g. for far field
1/247	• • {Digital recording of seismic data, e.g. in	1/3001	control}
	acquisition units or nodes}	1/387	Reducing secondary bubble pulse, i.e. reducing
1/26	Reference-signal-transmitting devices, e.g.	1/36/	the detected signals resulting from the generation
	indicating moment of firing of shot		and release of gas bubbles after the primary
1/28	 Processing seismic data, e.g. for interpretation or for 		explosion
	event detection (G01V 1/48 takes precedence)	1/202	-
1/282	{Application of seismic models, synthetic	1/393	Means for loading explosive underwater charges,
	seismograms}	1/40	e.g. combined with ignition devices
1/284	• • {Application of the shear wave component and/or	1/40	specially adapted for well-logging
-,	several components of the seismic signal}	1/42	using generators in one well and receivers
1/286	• • • {Mode conversion}		elsewhere or vice versa (G01V 1/52 takes
1/288	• • {Event detection in seismic signals, e.g.		precedence)
1/200	microseismics (G01V 1/36 takes precedence)}	1/44	• using generators and receivers in the same well
1/30	Analysis (G01V 1/50 takes precedence)		(G01V 1/52 takes precedence)
1/301		1/46	Data acquisition
1/301	geostructures	1/48	Processing data
	2EOSH UCHITES (1/50	A nativaina data
1/202		1/50	Analysing data
1/302	· · · · {in 3D data cubes}	1/50	Structural details

1/523 2001/526	 {Damping devices} {Mounting of transducers}	3/26	operating with magnetic or electric fields produced or modified either by the surrounding
3/00	Electric or magnetic prospecting or detecting; Measuring magnetic field characteristics of the	2/2/5	earth formation or by the detecting device (with electromagnetic waves <u>G01V 3/30</u>)
	earth, e.g. declination, deviation	3/265	• • {Operating with fields produced by spontaneous potentials, e.g. electrochemicals or
3/02	 operating with propagation of electric current 		produced by telluric currents}
3/04	· using dc	3/28	using induction coils
3/06	using ac	3/30	operating with electromagnetic waves
3/08	operating with magnetic or electric fields produced	3/32	operating with electron or nuclear magnetic
	or modified by objects or geological structures or	3/32	resonance
	by detecting devices (with electromagnetic waves G01V 3/12)	3/34	Transmitting data to recording or processing apparatus; Recording data
3/081	• • {the magnetic field is produced by the objects or	3/36	• Recording data (G01V 3/34 takes precedence)
	geological structures (characterised by the method of magnetic field measurement <u>G01R 33/00</u>)}	3/38	Processing data, e.g. for analysis, for interpretation, for correction
3/082	• • {operating with fields produced by spontaneous	3/40	specially adapted for measuring magnetic field
	potentials, e.g. electrochemical or produced by telluric currents (<u>G01V 3/26</u> takes precedence)}	2, 10	characteristics of the earth
3/083	• • {Controlled source electromagnetic [CSEM]	5/00	Prospecting or detecting by the use of ionising
	surveying}		radiation, e.g. of natural or induced radioactivity
2003/084	{Sources}	5/02	• specially adapted for surface logging, e.g. from
2003/085	{Receivers}	£/025	aircraft
2003/086	Processing	5/025	{specially adapted for use from aircraft}
3/087	{the earth magnetic field being modified by the	5/04 5/045	specially adapted for well-logging{Transmitting data to recording or processing
3/088	objects or geological structures} • • {operating with electric fields (G01V 3/082 takes}	5/045	apparatus; Recording data}
3/088	precedence)}	5/06	 for detecting naturally radioactive minerals
3/10	• using induction coils	5/08	 using primary nuclear radiation sources or X-rays
3/101	 {by measuring the impedance of the search 	2700	{(, e.g. for inducing radioactivity; investigating or
3,101	coil; by measuring features of a resonant		analysing materials by the use of wave or particle
	circuit comprising the search coil (measuring		radiation, e.g. X-rays, neutrons <u>G01N 23/00</u>)}
	impedance or characteristics derived therefrom	5/085	• • • {using another radioactive source}
	<u>G01R 27/00</u> , e.g. quality factor <u>G01R 27/26</u>)}	5/10	• • using neutron sources {(neutron generating
3/102	• • • {by measuring amplitude}		tubes <u>H05H 5/00</u> ; neutron sources using
3/104	• • • {using several coupled or uncoupled coils		isotopes <u>G21G 4/00</u>)}
	(G01V 3/101 takes precedence)}	5/101	• • • • {and detecting the secondary Y-rays
3/105	• • • • {forming directly coupled primary and secondary coils or loops}		produced in the surrounding layers of the bore hole}
3/107	• • • • {using compensating coil or loop arrangements}	5/102	• • • • { the neutron source being of the pulsed type }
3/108	• • • • { the emitter and the receiver coils or loops being uncoupled by positioning them	5/104	• • • { and detecting secondary Y-rays as well as reflected or back-scattered neutrons }
	perpendicularly to each other}	5/105	• • • • {the neutron source being of the pulsed
3/12	• operating with electromagnetic waves {(operating		type}
	with millimetre waves <u>G01V 8/005</u>)}	5/107	{and detecting reflected or back-scattered
3/14	operating with electron or nuclear magnetic	E/100	neutrons}
2/15	resonance	5/108	• • • • {the neutron source being of the pulsed
3/15	 specially adapted for use during transport, e.g. by a person, vehicle or boat 	5/12	type} using gamma or X-ray sources {(gamma
3/16	specially adapted for use from aircraft	3/12	sources using isotopes <u>G21G 4/00</u> ; X-ray tubes
3/10	(<u>G01V 3/165</u> - <u>G01V 3/175</u> take precedence)		H01J 35/00)}
3/165	• operating with magnetic or electric fields	5/125	• • • { and detecting the secondary gamma- or X-
	produced or modified by the object or by the		rays in different places along the bore hole}
	detecting device (with electromagnetic waves	5/14	• • using a combination of several sources, e.g. a
2/17	G01V 3/17)	E/1 4E	neutron and a gamma source
3/17	• • operating with electromagnetic waves {(operating with millimetre waves <u>G01V 8/005</u>)}	5/145	• • • { using a neutron source combined with a gamma- or X-ray source}
3/175	operating with electron or nuclear magnetic resonance	5/20	 Detecting prohibited goods, e.g. weapons, explosives, hazardous substances, contraband or
3/18	 specially adapted for well-logging 		smuggled objects
3/20	• • operating with propagation of electric current	5/22	. Active interrogation, i.e. by irradiating objects or
3/22	using dc		goods using external radiation sources, e.g. using
3/24	using ac	<i>51</i> 000	gamma rays or cosmic rays
		5/222	measuring scattered radiation

5/223	• • • {Mixed interrogation beams, e.g. using more than one type of radiation beam}	9/007	• {by detecting gases or particles representative of underground layers at or near the surface (analysing
5/224	• • • {Multiple energy techniques using one type of radiation, e.g. X-rays of different energies}		earth materials <u>G01N 33/24</u> ; analysing gases <u>per se</u> <u>G01N</u>)}
5/226	using tomography	9/02	 Determining existence or flow of underground
5/228	{using stereoscopic means}		water
5/232	• • • {having relative motion between the source, detector and object other than by conveyor (G01V 5/226 takes precedence)}	11/00	Prospecting or detecting by methods combining techniques covered by two or more of main groups
5/234	• • • {Measuring induced radiation, e.g. thermal neutron activation analysis}	11/002	G01V 1/00 - G01V 9/00 • {Details, e.g. power supply systems for logging instruments, transmitting or recording data,
5/26	• Passive interrogation, i.e. by measuring radiation emitted by objects or goods		specially adapted for well logging, also if the prospecting method is irrelevant (means for
5/271	• • {using a network, e.g. a remote expert, accessing remote data or the like}		transmitting well survey signals <u>E21B 47/12</u> ; signal transmission systems in general <u>G08C</u> ; transmission
5/281	• • {detecting special nuclear material [SNM], e.g. Uranium-235, Uranium-233 or Plutonium-239}	11/005	in general <u>H04B</u>)} {Devices for positioning logging sondes with
7/00	Measuring gravitational fields or waves; Gravimetric prospecting or detecting		respect to the borehole wall (centralising devices for drilling rods or pipes <u>E21B 17/10</u> ; setting or locking tools in boreholes <u>E21B 23/00</u> ; locating
7/005	• {using a resonating body or device, e.g. string (G01V 7/08 - G01V 7/12 take precedence;	11/007	objects in boreholes <u>E21B 47/09</u>)}
	measuring resonant frequency of mechanical	11/007	• {using the seismo-electric effect}
7/02	vibrations <u>G01H 13/00</u> ; measuring frequency <u>per se</u> <u>G01R 23/00</u>)} • Details	13/00	Manufacturing, calibrating, cleaning, or repairing instruments or devices covered by groups
7/02	Electric, photoelectric, or magnetic indicating or		G01V 1/00 - G01V 11/00
7/04	recording means	15/00	Tags attached to, or associated with, an object, in order to enable detection of the object (record
7/08	 Analysis or interpretation of gravimetric records using balances 		carriers for use with machines having a detectable tag
7/10	 using balances using torsion balances, e.g. Eötvös balance 		or marker <u>G06K 19/00</u>)
7/10	 using pendulums 	20/00	Geomodelling in general
7/14	 using free-fall time 	20,00	
7/16	 specially adapted for use on moving platforms, e.g. 		NOTE
8/00	ship, aircraft Prospecting or detecting by optical means		This group <u>covers</u> geomodelling or geomodels wherein no prospecting, detecting or measuring technique is specified or relevant.
3,00			teeningue is specified of relevant.
	NOTE This group <u>covers</u> the use of {millimetre	99/00	Subject matter not provided for in other groups of this subclass
8/005	waves, infrared, visible or ultraviolet light. • {operating with millimetre waves, e.g. measuring}	2200/00	Details of seismic or acoustic prospecting or detecting in general
0,000	the black losey radiation}	2200/10	Miscellaneous details
8/02	Prospecting	2200/12	Clock synchronization-related issues
8/10	• Detecting, e.g. by using light barriers (by reflection	2200/14	Quality control
	from the object G01S 17/00)	2200/16	Measure-while-drilling or logging-while-drilling
8/12	• using one transmitter and one receiver	2210/00	Details of seismic processing or englysis
8/14	using reflectors	2210/00	Details of seismic processing or analysis Aspects of acoustic signal generation or detection
8/16	using optical fibres	2210/10 2210/12	Aspects of acoustic signal generation of detection Signal generation
8/18	using mechanical scanning systems	2210/12	Active source
8/20	• using multiple transmitters or receivers		Shot
8/22	using reflectors		Continuous
8/24	• • using optical fibres		Drilling-related
8/26	using mechanical scanning systems		Passive source, e.g. microseismics
9/00	Prospecting or detecting by methods not provided for in groups $\underline{G01V 1/00} - \underline{G01V 8/00}$	2210/1232	Earthquakes Hydrocarbon reservoir, e.g. spontaneous or
9/002	• {using fields or radiation detectable only by persons susceptible therefor, e.g. radio-esthesis, dowsing}		induced fracturing Acoustic daylight, e.g. cultural noise
9/005	• {by thermal methods, e.g. after generation of heat		Virtual source
	by chemical reactions}		Cooperating multiple sources
		2210/127	Source location
			Air
			Sea
		2210/1293	• • • • Sca

22101295		
22101429 S. Silsusface, e.g., in horehole or below weathering layer or mad line weathering layer or mansformation to a datum transformation in the page of mad line weathering layer or mad layer laye	2210/1295 Land surface	2210/514 Post-stack
2010 14 Receiver Ineation 2210 152 Statics correction, e.g., weathering layer or trusts/cranation to a datum 2210 142 Receiver Ineation 2210 143 Receiver Ineation 2210 142 Receiver Ineation 2210 143 Receiver Ineation 2210 142 Receiver Ineation 2210 142 Receiver Ineation 2210 142 Receiver Ineation 2210 142 Receiver Ineation 2210 143 Receiver Ineation 2210 144 Receiver Ineation 2210 144 Receiver Ineation 2210 144 Receiver Ineation 2210 145 Receiver Ineation 2210 14		
2210141 Signal detection 2210572 Continues 2210542 Continues Con		
2210142		
22101421		
22101423		
22101425		
2210/1427 Sea bed 2210/544		
2210/1429 Subsurface, e.g., in brotehole or below weathering layer or mud line weathering receivers. Anti-aliasing for missing receivers and virtual receiver. Anti-aliasing for missing receivers and virtual receiver. Anti-aliasing for missing receivers. Anti-aliasing for missin		
weathering layer or mad line 2210/56 De-ghosting. Reverbracino compensation 2210/57 Trace laterpolation or extrapolation, e.g. for virtual receiver, Anti-aliasing for missing receivers 2210/56 New York of England (1987) 2210/58 Media-related 2210/58 Media-related 2210/58 Media-related 2210/58 Anticumtion 2210/167 Very long offset 2210/58 Anticumtion 2210/167 Very long offset 2210/58 Anticumtion 2210/167 Very long offset 2210/58 Anticumtion 2210/20 Trace signal pre-filtering to select, remove or transform specific events or signal components, Le. trace-indrace-out fremoving misse GDIV-2210/32 2210/21 Frequency-domain filtering e.g. band pass 2210/58 Analysis by combining or comparing a selsmic data set with other data Previously recorded data, e.g. time-lapse or 4D 2210/22 Time-domain filtering 2210/612 Tracking reservoir changes over time, e.g. due to production 2210/24 F.F. filtering 2210/612 Transform filter for merging or comparing traces from different surveys 2210/612 Subsidence, i.e. upwards or downwards 2210/62 Modulation or demodalation, e.g. for continuous sources 2210/62 Transform filter for merging or comparing traces from different surveys 2210/616 Sustaine or acoustic, e.g. land or sea measurements 2210/616 Sustaine or acoustic, e.g. land or sea measurements 2210/616 Sustaine or acoustic, e.g. land or sea measurements 2210/616 Sustaine or acoustic, e.g. land or sea measurements 2210/616 Sustaine or acoustic, e.g. land or sea measurements 2210/616 Sustaine or acoustic, e.g. land or sea measurements 2210/616 Sustaine or acoustic, e.g. land or sea measurements 2210/616 Sustaine or acoustic, e.g. land or sea measurements 2210/616 Sustaine or acoustic, e.g. land or sea measurements 2210/616 Sustaine or acoustic, e.g. land or sea measurements 2210/616 Sustaine or acoustic, e.g. land or sea measurements 2210/616 Sustaine or accoustic, e.g. land or sea measurements		
2210/144 . with functionally associated receivers, e.g. hydrophone and geophone parts virtual receiver Anti-aliasing for missing receivers virtual receivers virtual receiver Anti-aliasing for missing receivers virtual receiv		
hydrophone and geophone pairs 2210/161	weathering layer or mud line	2210/56 . De-ghosting; Reverberation compensation
2210/16 Survey configurations 2210/163 Vertical esimic profiling [VSP] 2210/188 Media-claited 2210/163 Very long offset 2210/188 Anisotropic media 2210/189 Anisotropic media Anisotropic m		
2210/161		
2210/165 Cross-well 2210/165 Dispersion 2210/165 Dispersion 2210/166 Dispersion 2210/166 Dispersion 2210/167 Dispersion Dispersion 2210/167 Dispersion Dispersion Dispersion Dispersion 2210/167 Dispersion Dispersion Dispersion Dispersion Dispersion Dispersion Dispersion 2210/167 Dispersion Dispersio	· · · · · · · · · · · · · · · · · · ·	
2210/165	2210/161 Vertical seismic profiling [VSP]	2210/58 . Media-related
2210/167 Very long offset 2210/586 Anisotropic media 2210/169	2210/163 Cross-well	2210/582 Dispersion
2210/169 Sparse arrays 2210/588 Non-linear media 2210/202 Trace signal pre-filtering to select, remove or transform specific events or signal components, i.e. trace-in/trace-out (removing noise (GIV 2210/32) 2210/61 . Analysis by combining or comparing a seismic data set with other data	2210/165 Wide azimuth	2210/584 Attenuation
2210/20	2210/167 Very long offset	2210/586 Anisotropic media
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2210/66	Subsurface modeling
2210/661	Model from sedimentation process modeling,
	e.g. from first principles
2210/663	Modeling production-induced effects
2210/665	using geostatistical modeling
2210/6652	Kriging
2210/667	Determining confidence or uncertainty in
	parameters
2210/67	Wave propagation modeling
2210/671	Raytracing
2210/673	Finite-element; Finite-difference
2210/675	Wave equation; Green's functions
2210/677	Spectral; Pseudo-spectral
2210/679	Reverse-time modeling or coalescence
	modelling, i.e. starting from receivers
2210/70	Other details related to processing
2210/72	Real-time processing
2210/74	Visualisation of seismic data