

| Symbol | Typ | Titel |
|------------------|---------------------|---|
| G | Sektion | SECTION G — PHYSICS |
| G01 | Untersektion | INSTRUMENTS |
| G01 | Klasse | MEASURING (counting G06M); TESTING |
| G01V | Unterklasse | GEOPHYSICS; GRAVITATIONAL MEASUREMENTS; DETECTING MASSES OR OBJECTS; TAGS (detecting or locating foreign bodies for diagnostic, surgical or person-identification purposes A61B; means for indicating the location of accidentally buried, e.g. snow-buried, persons A63B 29/02; investigating or analysing earth materials by determining their chemical or physical properties G01N; measuring electric or magnetic variables in general, other than direction or magnitude of the earth's field G01R; magnetic resonance arrangements in general G01R 33/20) [4, 6] |
| G01V 1/00 | Hauptgruppe | Seismology; Seismic or acoustic prospecting or detecting |
| G01V 1/02 | 1-Punkt Untergruppe | . Generating seismic energy (blasting in general F42; nuclear explosives G21J) |
| G01V 1/04 | 2-Punkt Untergruppe | . . Details |
| G01V 1/047 | 3-Punkt Untergruppe | . . . Arrangements for coupling the generator to the ground [3] |
| G01V 1/053 | 4-Punkt Untergruppe | for generating transverse waves [3] |
| G01V 1/06 | 3-Punkt Untergruppe | . . . Ignition devices (G01V 1/393 takes precedence) [3] |
| G01V 1/08 | 4-Punkt Untergruppe | involving time-delay devices |
| G01V 1/09 | 3-Punkt Untergruppe | . . . Transporting arrangements, e.g. on vehicles (G01V 1/38 takes precedence) [3] |
| G01V 1/104 | 2-Punkt Untergruppe | . . using explosive charges (G01V 1/157 takes precedence) [3] |
| G01V 1/108 | 3-Punkt Untergruppe | . . . by deforming or displacing surfaces of enclosures [3] |
| G01V 1/112 | 4-Punkt Untergruppe | for use on the surface of the earth [3] |
| G01V 1/116 | 3-Punkt Untergruppe | . . . where pressurised combustion gases escape from the generator in a pulsating manner, e.g. for generating bursts [3] |
| G01V 1/13 | 3-Punkt Untergruppe | . . . Arrangements or disposition of charges to produce a desired pattern in space or time |
| G01V 1/133 | 2-Punkt Untergruppe | . . using fluidic driving means, e.g. using highly pressurised fluids (G01V 1/104 takes precedence) [3] |
| G01V 1/135 | 3-Punkt Untergruppe | . . . by deforming or displacing surfaces of enclosures [3] |
| G01V 1/137 | 3-Punkt Untergruppe | . . . which fluids escape from the generator in a pulsating manner, e.g. for generating bursts [3] |
| G01V 1/143 | 2-Punkt Untergruppe | . . using mechanical driving means (G01V 1/104, G01V 1/133 takes precedence) [3] |
| G01V 1/145 | 3-Punkt Untergruppe | . . . by deforming or displacing surfaces [3] |
| G01V 1/147 | 3-Punkt Untergruppe | . . . using impact of dropping masses [3] |
| G01V 1/153 | 3-Punkt Untergruppe | . . . using rotary unbalanced masses [3] |
| G01V 1/155 | 3-Punkt Untergruppe | . . . using reciprocating masses [3] |
| G01V 1/157 | 2-Punkt Untergruppe | . . using spark discharges; using exploding wires (spark gaps, discharge apparatus, not otherwise provided for H01T) [3] |
| G01V 1/16 | 1-Punkt Untergruppe | . Receiving elements for seismic signals (measuring vibrations G01H; measuring acceleration or shock G01P; microphones or like acoustic electromechanical transducers H04R); Arrangements or adaptations of receiving elements |

| Symbol | Typ | Titel |
|------------------|---------------------|---|
| G01V 1/18 | 2-Punkt Untergruppe | . . Receiving elements, e.g. seismometer, geophone [2] |
| G01V 1/20 | 2-Punkt Untergruppe | . . Arrangements of receiving elements, e.g. geophone pattern |
| G01V 1/22 | 1-Punkt Untergruppe | . Transmitting seismic signals to recording or processing apparatus (signal-transmitting systems in general G08C; electric transmission systems H04B) |
| G01V 1/24 | 1-Punkt Untergruppe | . Recording seismic data (transforming one recording into another G01V 1/32) |
| G01V 1/26 | 2-Punkt Untergruppe | . . Reference-signal-transmitting devices, e.g. indicating moment of firing of shot |
| G01V 1/28 | 1-Punkt Untergruppe | . Processing seismic data, e.g. analysis, for interpretation, for correction (G01V 1/48 takes precedence) [6] |
| G01V 1/30 | 2-Punkt Untergruppe | . . Analysis (G01V 1/50 takes precedence) [6] |
| G01V 1/32 | 2-Punkt Untergruppe | . . Transforming one recording into another |
| G01V 1/34 | 2-Punkt Untergruppe | . . Displaying seismic recordings |
| G01V 1/36 | 2-Punkt Untergruppe | . . Effecting static or dynamic corrections on records, e.g. correcting spread; Correlating seismic signals; Eliminating effects of unwanted energy |
| G01V 1/37 | 3-Punkt Untergruppe | . . . specially adapted for seismic systems using continuous agitation of the ground [3] |
| G01V 1/38 | 1-Punkt Untergruppe | . specially adapted for water-covered areas (G01V 1/28 takes precedence) |
| G01V 1/387 | 2-Punkt Untergruppe | . . Reducing secondary bubble pulse, i.e. reducing the detected signals resulting from the generation and release of gas bubbles after the primary explosion [3] |
| G01V 1/393 | 2-Punkt Untergruppe | . . Means for loading explosive underwater charges, e.g. combined with ignition devices [3] |
| G01V 1/40 | 1-Punkt Untergruppe | . specially adapted for well-logging |
| G01V 1/42 | 2-Punkt Untergruppe | . . using generators in one well and receivers elsewhere or <u>vice-versa</u> (G01V 1/52 takes precedence) [6] |
| G01V 1/44 | 2-Punkt Untergruppe | . . using generators and receivers in the same well (G01V 1/52 takes precedence) [6] |
| G01V 1/46 | 3-Punkt Untergruppe | . . . Data acquisition [6] |
| G01V 1/48 | 3-Punkt Untergruppe | . . . Processing data [6] |
| G01V 1/50 | 4-Punkt Untergruppe | Analysing data [6] |
| G01V 1/52 | 2-Punkt Untergruppe | . . Structural details [6] |
| G01V 3/00 | Hauptgruppe | Electric or magnetic prospecting or detecting (by optical means G01V 8/00); Measuring magnetic field characteristics of the earth, e.g. declination, deviation (for navigation, for surveying G01C) [2, 4] |
| G01V 3/02 | 1-Punkt Untergruppe | . operating with propagation of electric current |
| G01V 3/04 | 2-Punkt Untergruppe | . . using dc |
| G01V 3/06 | 2-Punkt Untergruppe | . . using ac |
| G01V 3/08 | 1-Punkt Untergruppe | . operating with magnetic or electric fields produced or modified by objects or geological structures or by detecting devices (with electromagnetic waves G01V 3/12; measuring the magnetic field characteristics of the earth G01V 3/40) |
| G01V 3/10 | 2-Punkt Untergruppe | . . using induction coils |
| G01V 3/11 | 3-Punkt Untergruppe | . . . for detecting conductive objects, e.g. firearms, cables or pipes [3] |

| Symbol | Typ | Titel |
|------------------|---------------------|--|
| G01V 3/12 | 1-Punkt Untergruppe | . operating with electromagnetic waves |
| G01V 3/14 | 1-Punkt Untergruppe | . operating with electron or nuclear magnetic resonance |
| G01V 3/15 | 1-Punkt Untergruppe | . specially adapted for use during transport, e.g. by a person, vehicle or boat [3] |
| G01V 3/16 | 2-Punkt Untergruppe | . . specially adapted for use from aircraft (G01V 3/165-G01V 3/175 take precedence) [3] |
| G01V 3/165 | 2-Punkt Untergruppe | . . operating with magnetic or electric fields produced or modified by the object or by the detecting device (with electromagnetic waves G01V 3/17) [3] |
| G01V 3/17 | 2-Punkt Untergruppe | . . operating with electromagnetic waves [3] |
| G01V 3/175 | 2-Punkt Untergruppe | . . operating with electron or nuclear magnetic resonance [3] |
| G01V 3/18 | 1-Punkt Untergruppe | . specially adapted for well-logging |
| G01V 3/20 | 2-Punkt Untergruppe | . . operating with propagation of electric current [3] |
| G01V 3/22 | 3-Punkt Untergruppe | . . . using dc [3] |
| G01V 3/24 | 3-Punkt Untergruppe | . . . using ac [3] |
| G01V 3/26 | 2-Punkt Untergruppe | . . operating with magnetic or electric fields produced or modified either by the surrounding earth formation or by the detecting device (with electromagnetic waves G01V 3/30) [3] |
| G01V 3/28 | 3-Punkt Untergruppe | . . . using induction coils [3] |
| G01V 3/30 | 2-Punkt Untergruppe | . . operating with electromagnetic waves [3] |
| G01V 3/32 | 2-Punkt Untergruppe | . . operating with electron or nuclear magnetic resonance [3] |
| G01V 3/34 | 2-Punkt Untergruppe | . . Transmitting data to recording or processing apparatus; Recording data [3] |
| G01V 3/36 | 1-Punkt Untergruppe | . Recording data (G01V 3/34 takes precedence) [3] |
| G01V 3/38 | 1-Punkt Untergruppe | . Processing data, e.g. for analysis, for interpretation, for correction (computing in general G06) [3] |
| G01V 3/40 | 1-Punkt Untergruppe | . specially adapted for measuring magnetic field characteristics of the earth [3] |
| G01V 5/00 | Hauptgruppe | Prospecting or detecting by the use of nuclear radiation, e.g. of natural or induced radioactivity (determining the properties of materials G01N; measuring nuclear radiation G01T) |
| G01V 5/02 | 1-Punkt Untergruppe | . specially adapted for surface logging, e.g. from aircraft [3] |
| G01V 5/04 | 1-Punkt Untergruppe | . specially adapted for well-logging [3] |
| G01V 5/06 | 2-Punkt Untergruppe | . . for detecting naturally radioactive minerals [3] |
| G01V 5/08 | 2-Punkt Untergruppe | . . using primary nuclear radiation sources or X-rays [3] |
| G01V 5/10 | 3-Punkt Untergruppe | . . . using neutron sources [3] |
| G01V 5/12 | 3-Punkt Untergruppe | . . . using gamma- or X-ray sources [3] |
| G01V 5/14 | 3-Punkt Untergruppe | . . . using a combination of several sources, e.g. a neutron and a gamma source [3] |
| G01V 7/00 | Hauptgruppe | Measuring gravitational fields or waves; Gravimetric prospecting or detecting |
| G01V 7/02 | 1-Punkt Untergruppe | . Details |
| G01V 7/04 | 2-Punkt Untergruppe | . . Electric, photoelectric, or magnetic indicating or recording means |
| G01V 7/06 | 2-Punkt Untergruppe | . . Analysis or interpretation of gravimetric records |

| Symbol | Typ | Titel |
|-------------------|---------------------|--|
| G01V 7/08 | 1-Punkt Untergruppe | . using balances (balances in general G01G) |
| G01V 7/10 | 2-Punkt Untergruppe | . . using torsion balances, e.g. Eötvös balance |
| G01V 7/12 | 1-Punkt Untergruppe | . using pendulums |
| G01V 7/14 | 1-Punkt Untergruppe | . using free-fall time |
| G01V 7/16 | 1-Punkt Untergruppe | . specially adapted for use on moving platforms, e.g. ship, aircraft |
| G01V 8/00 | Hauptgruppe | Prospecting or detecting by optical means (photogrammetry or videogrammetry G01C 11/00; measurement of characteristics of light G01J; optical scanning systems G02B 26/10; discharge tubes detecting the presence of radiation H01J 40/00, H01J 47/00; semiconductor devices sensitive to light H01L 31/00) [6] |
| G01V 8/02 | 1-Punkt Untergruppe | . Prospecting [6] |
| G01V 8/10 | 1-Punkt Untergruppe | . Detecting, e.g. by using light barriers (by reflection from the object G01S 17/00; counting of objects carried by a conveyer G06M 7/00; signalling or calling arrangements G08B; detecting movement of traffic to be counted or controlled G08G 1/01; proximity switches H03K 17/945, H03K 17/965) [6] |
| G01V 8/12 | 2-Punkt Untergruppe | . . using one transmitter and one receiver [6] |
| G01V 8/14 | 3-Punkt Untergruppe | . . . using reflectors [6] |
| G01V 8/16 | 3-Punkt Untergruppe | . . . using optical fibres [6] |
| G01V 8/18 | 3-Punkt Untergruppe | . . . using mechanical scanning systems [6] |
| G01V 8/20 | 2-Punkt Untergruppe | . . using multiple transmitters or receivers [6] |
| G01V 8/22 | 3-Punkt Untergruppe | . . . using reflectors [6] |
| G01V 8/24 | 3-Punkt Untergruppe | . . . using optical fibres [6] |
| G01V 8/26 | 3-Punkt Untergruppe | . . . using mechanical scanning systems [6] |
| G01V 9/00 | Hauptgruppe | Prospecting or detecting by methods not provided for in groups G01V 1/00-G01V 8/00 [6] |
| G01V 9/02 | 1-Punkt Untergruppe | . Determining existence or flow of underground water |
| G01V 11/00 | Hauptgruppe | Prospecting or detecting by methods combining techniques covered by two or more of main groups G01V 1/00-G01V 9/00 |
| G01V 13/00 | Hauptgruppe | Manufacturing, calibrating, cleaning, or repairing instruments or devices covered by groups G01V 1/00-G01V 11/00 |
| G01V 15/00 | Hauptgruppe | Tags attached to, or associated with, an object, in order to enable detection of the object (record carriers for use with machines G06K 19/00; signs, labels G09F) [6] |