

Symbol	Typ	Titel
G	Sektion	SECTION G — PHYSICS
G10	Klasse	MUSICAL INSTRUMENTS; ACOUSTICS
G10K	Unterklasse	SOUND-PRODUCING DEVICES (sound-producing toys A63H 5/00; musical instruments or parts thereof, <u>see</u> the relevant subclass, e.g. G10D); ACOUSTICS NOT OTHERWISE PROVIDED FOR (fluid oscillators or pulse generators for fluid-pressure systems F15B 21/12; systems using the reflection or reradiation of acoustic waves G01S 15/00; generating seismic energy G01V 1/02; signalling or calling arrangements, alarm arrangements G08B; piezo-electric, electrostrictive or magnetostrictive elements in general H01L 41/00; transmission systems using infrasonic, sonic, or ultrasonic waves H04B 11/00; loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers H04R) [6]
G10K 1/00	Hauptgruppe	Devices in which sound is produced by striking a resonating body, e.g. bell, chimes, gong (combinations with clocks or watches G04B, G04C; carillons G10F 1/10)
G10K 1/06	1-Punkt Untergruppe	. the resonating device having the shape of a bell, plate, rod, or tube (bells for towers G10K 1/28)
G10K 1/062	2-Punkt Untergruppe	. . electrically operated
G10K 1/063	3-Punkt Untergruppe	. . . the sounding member being a bell
G10K 1/064	4-Punkt Untergruppe	 Operating or striking mechanisms therefor
G10K 1/065	5-Punkt Untergruppe	 for timed or repeated operation
G10K 1/066	3-Punkt Untergruppe	. . . the sounding member being a tube, plate, or rod
G10K 1/067	4-Punkt Untergruppe	 Operating or striking mechanisms therefor
G10K 1/068	2-Punkt Untergruppe	. . hydraulically operated; pneumatically operated
G10K 1/07	2-Punkt Untergruppe	. . mechanically operated; Hand bells; Bells for animals
G10K 1/071	3-Punkt Untergruppe	. . . Hand bells; Bells for animals
G10K 1/072	3-Punkt Untergruppe	. . . Operating or striking mechanisms therefor
G10K 1/074	4-Punkt Untergruppe	 with rotary clappers or shells
G10K 1/076	4-Punkt Untergruppe	 for timed or repeated operation
G10K 1/08	2-Punkt Untergruppe	. . Details or accessories of general applicability
G10K 1/10	3-Punkt Untergruppe	. . . Sounding members; Mounting thereof; Clappers or other strikers
G10K 1/26	3-Punkt Untergruppe	. . . Mountings; Casings
G10K 1/28	1-Punkt Untergruppe	. Bells for towers or the like
G10K 1/30	2-Punkt Untergruppe	. . Details or accessories
G10K 1/32	3-Punkt Untergruppe	. . . Sounding members; Clappers or other strikers
G10K 1/34	3-Punkt Untergruppe	. . . Operating mechanisms
G10K 1/36	3-Punkt Untergruppe	. . . Means for silencing or damping (means or arrangements for avoiding or reducing out-of-balance forces due to motion F16F 15/00)
G10K 1/38	3-Punkt Untergruppe	. . . Supports; Mountings
G10K 3/00	Hauptgruppe	Rattles or like noise-producing devices

Symbol	Typ	Titel
G10K 5/00	Hauptgruppe	Whistles
G10K 5/02	1-Punkt Untergruppe	. Ultrasonic whistles [3]
G10K 7/00	Hauptgruppe	Sirens
G10K 7/02	1-Punkt Untergruppe	. in which the sound-producing member is rotated manually or by a motor (G10K 7/06 takes precedence)
G10K 7/04	2-Punkt Untergruppe	. . by an electric motor
G10K 7/06	1-Punkt Untergruppe	. in which the sound-producing member is driven by a fluid, e.g. by a compressed gas
G10K 9/00	Hauptgruppe	Devices in which sound is produced by vibrating a diaphragm or analogous element, e.g. fog horn, vehicle hooter, buzzer (loudspeakers or like acoustic electromechanical transducers H04R)
G10K 9/02	1-Punkt Untergruppe	. driven by gas, e.g. suction operated
G10K 9/04	2-Punkt Untergruppe	. . by compressed gases, e.g. compressed air
G10K 9/06	2-Punkt Untergruppe	. . produced by detonation
G10K 9/08	1-Punkt Untergruppe	. driven by water or other liquids
G10K 9/10	1-Punkt Untergruppe	. driven by mechanical means only
G10K 9/12	1-Punkt Untergruppe	. electrically operated
G10K 9/122	2-Punkt Untergruppe	. . using piezo-electric driving means [6]
G10K 9/125	3-Punkt Untergruppe	. . . with a plurality of active elements [6]
G10K 9/128	2-Punkt Untergruppe	. . using magnetostrictive driving means [6]
G10K 9/13	2-Punkt Untergruppe	. . using electromagnetic driving means [3]
G10K 9/15	3-Punkt Untergruppe	. . . Self-interrupting arrangements [3]
G10K 9/16	2-Punkt Untergruppe	. . with means for generating the current by muscle power
G10K 9/18	1-Punkt Untergruppe	. Details, e.g. bulb, pump, piston, switch, casing
G10K 9/20	2-Punkt Untergruppe	. . Sounding members
G10K 9/22	2-Punkt Untergruppe	. . Mountings; Casings
G10K 11/00	Hauptgruppe	Methods or devices for transmitting, conducting or directing sound in general; Methods or devices for protecting against, or for damping, noise or other acoustic waves in general (sound insulation for vehicles B60R 13/08; sound insulation for aircraft B64C 1/40; sound insulating materials, <u>see</u> the relevant places, e.g. C04B 26/00-C04B 38/00; reduction of noise on permanent way E01B 19/00; absorption of air-transmitted noise from road or railway traffic E01F 8/00; noise insulation, absorption or reflection in buildings E04B 1/74; room acoustics E04B 1/99; sound insulation in floors E04F 15/20; gas-flow silencers or exhaust apparatus for machines or engines in general, for internal-combustion engines F01N; intake silencers for internal-combustion engines F02M 35/00; suppression of undesired vibrations F16F 7/00-F16F 15/00; preventing noise in valves F16K 47/02; noise absorbers in pipes F16L 55/02; arrangements for suppressing noise in direct-contact trickle coolers F28C 1/10; silencers for weapons F41)
G10K 11/02	1-Punkt Untergruppe	. Mechanical acoustic impedances; Impedance matching, e.g. by horns; Acoustic resonators [3]
G10K 11/04	2-Punkt Untergruppe	. . Acoustic filters [3]
G10K 11/08	1-Punkt Untergruppe	. Non-electric sound-amplifying devices, e.g. non-electric megaphones (amplifying by horns G10K 11/02; amplifying by focusing G10K 11/26)
G10K 11/16	1-Punkt Untergruppe	. Methods or devices for protecting against, or damping of, acoustic waves, e.g. sound (G10K 11/36 takes precedence) [3]

Symbol	Typ	Titel
G10K 11/162	2-Punkt Untergruppe	. . Selection of materials [6]
G10K 11/165	3-Punkt Untergruppe	. . . Particles in a matrix [6]
G10K 11/168	3-Punkt Untergruppe	. . . Plural layers of different materials, e.g. sandwiches [6]
G10K 11/172	2-Punkt Untergruppe	. . using resonance effects [6]
G10K 11/175	2-Punkt Untergruppe	. . using interference effects; Masking sound [6]
G10K 11/178	3-Punkt Untergruppe	. . . by electro-acoustically regenerating the original acoustic waves in anti-phase [6]
G10K 11/18	1-Punkt Untergruppe	. Methods or devices for transmitting, conducting or directing sound (G10K 11/02, G10K 11/36 take precedence; medical stethoscopes A61B 7/02) [3]
G10K 11/20	2-Punkt Untergruppe	. . Reflecting arrangements (G10K 11/28 takes precedence) [3]
G10K 11/22	2-Punkt Untergruppe	. . for conducting sound through hollow pipes, e.g. speaking tubes [3]
G10K 11/24	2-Punkt Untergruppe	. . for conducting sound through solid bodies, e.g. wire [3]
G10K 11/26	2-Punkt Untergruppe	. . Sound-focusing or directing, e.g. scanning [3]
G10K 11/28	3-Punkt Untergruppe	. . . using reflection, e.g. parabolic reflector [3]
G10K 11/30	3-Punkt Untergruppe	. . . using refraction, e.g. acoustic lenses [3]
G10K 11/32	3-Punkt Untergruppe	. . . characterised by shape of the source [3]
G10K 11/34	3-Punkt Untergruppe	. . . using electrical steering of transducer arrays, e.g. beam steering [3]
G10K 11/35	3-Punkt Untergruppe	. . . using mechanical steering of transducers [6]
G10K 11/36	1-Punkt Untergruppe	. Devices for manipulating acoustic surface waves (electro-acoustic amplifiers H03F 13/00; networks comprising electro-acoustic elements H03H 9/00) [3]
G10K 13/00	Hauptgruppe	Cones, diaphragms, or the like, for emitting or receiving sound in general (for electromechanical transducers H04R 7/00)
G10K 15/00	Hauptgruppe	Acoustics not otherwise provided for [4]
G10K 15/02	1-Punkt Untergruppe	. Synthesis of acoustic waves (synthesis of speech G10L 13/00) [4]
G10K 15/04	1-Punkt Untergruppe	. Sound-producing devices (G10K 15/02 takes precedence) [4]
G10K 15/06	2-Punkt Untergruppe	. . using electric discharge [4]
G10K 15/08	1-Punkt Untergruppe	. Arrangements for producing a reverberation or echo sound [5]
G10K 15/10	2-Punkt Untergruppe	. . using time-delay networks comprising electromechanical or electro-acoustic devices [5]
G10K 15/12	2-Punkt Untergruppe	. . using electronic time-delay networks [5]