CPC COOPERATIVE PATENT CLASSIFICATION

H ELECTRICITY

(NOTE omitted)

H02 GENERATION; CONVERSION OR DISTRIBUTION OF ELECTRIC POWER

H02N ELECTRIC MACHINES NOT OTHERWISE PROVIDED FOR

NOTES

- 1. This subclass covers:
 - · electrostatic generators, motors, clutches, or holding devices;
 - other non-dynamo-electric generators or motors;
 - holding or levitation devices using magnetic attraction or repulsion;
 - arrangements for starting, regulating, braking, or otherwise controlling such machines unless in conjoint operation with a second machine.
- 2. Specific provision for generators, motors, or other means for converting between electric and other forms of energy also exists in other subclasses, e.g. in class <u>H10</u> and subclasses <u>H01L</u>, <u>H01M</u>, <u>H02K</u>, <u>H04R</u>.

WARNING

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	Electrostatic generators or motors using a solid moving electrostatic charge carrier	2/0055	• • {Supports for driving or driven bodies; Means for pressing driving body against driven body}
1/002	. {Electrostatic motors}	2/006	• • • {Elastic elements, e.g. springs (in general
1/004	• {in which a body is moved along a path due to	2/000	F16F 1/00)}
1/00-1	interaction with an electric field travelling along	2/0065	• • • {Friction interface (friction linings
	the path}		F16D 69/00)}
1/006	• • {of the gap-closing type (H02N 1/004 takes	2/007	• • • {Materials}
	precedence)}	2/0075	• • {Electrical details, e.g. drive or control circuits or
1/008	• • {Laterally driven motors, e.g. of the comb-		methods}
	drive type}	2/008	{Means for controlling vibration frequency or
1/04	• Friction generators		phase, e.g. for resonance tracking}
1/06	 Influence generators 	2/0085	• • • {Leads; Wiring arrangements}
1/08	with conductive charge carrier, i.e. capacitor	2/009	• • {Thermal details, e.g. cooling means}
	machines	2/0095	• {producing combined linear and rotary motion, e.g.
1/10	with non-conductive charge carrier		multi-direction positioners}
1/12	in the form of a conveyor belt, e.g. van de	2/02	 producing linear motion, e.g. actuators; Linear
	Graaff machine		positioners {; Linear motors}
2/00	Electric machines in general using piezoelectric	2/021	• • {using intermittent driving, e.g. step motors,
	effect, electrostriction or magnetostriction	2/022	piezoleg motors}
	(generating mechanical vibrations in general <u>B06B</u> ;	2/023	{Inchworm motors}
	piezoelectric, electrostrictive or magnetostrictive	2/025	• • {Inertial sliding motors}
	devices in general <u>H10N 30/00</u>)	2/026	 {by pressing one or more vibrators against the driven body}
2/0005	• {producing non-specific motion; Details common to	2/028	• {along multiple or arbitrary translation directions,
	machines covered by <u>H02N 2/02</u> - <u>H02N 2/16</u> }	2/028	e.g. XYZ stages}
2/001	• • {Driving devices, e.g. vibrators}	2/04	Constructional details
2/0015	• • • {using only bending modes}	2/043	{Mechanical transmission means, e.g. for
2/002	• • • {using only longitudinal or radial modes}	2/043	stroke amplification}
2/0025	• • • {using combined longitudinal modes}	2/046	• • • {for conversion into rotary motion}
2/003	• • • {using longitudinal or radial modes combined	2/06	Drive circuits; Control arrangements { or
2/0025	with bending modes}		methods}
2/0035	{Cylindrical vibrators}	2/062	• • • {Small signal circuits; Means for controlling
2/004	{Rectangular vibrators}		position or derived quantities, e.g. for removing
2/0045	 • {using longitudinal or radial modes combined with torsion or shear modes} 		hysteresis}
2/005	• {Mechanical details, e.g. housings (casings for	2/065	• • • {Large signal circuits, e.g. final stages}
2/003	dynamo-electric machines H02K 5/00)}	2/067	• • • { generating drive pulses }
	dynamo ciccure macinics <u>mozik 5/00</u> /		

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2/08	• using travelling waves {, i.e. Rayleigh surface waves}
2/10	 producing rotary motion, e.g. rotary motors
2/101	• {using intermittent driving, e.g. step motors}
2/103	• • {by pressing one or more vibrators against the rotor}
2/105	• • {Cycloid or wobble motors; Harmonic traction motors}
2/106	• • {Langevin motors}
2/108	• • {around multiple axes of rotation, e.g. spherical rotor motors}
2/12	Constructional details
2/123	• • • {Mechanical transmission means, e.g. for gearing}
2/126	{for conversion into linear motion}
2/14	Drive circuits; Control arrangements {or methods}
2/142	 {Small signal circuits; Means for controlling position or derived quantities, e.g. speed,
	torque, starting, stopping, reversing}
2/145	• • {Large signal circuits, e.g. final stages}
2/147	{Multi-phase circuits}
2/16	. using travelling waves {, i.e. Rayleigh surface
	waves}
2/163	• • • {Motors with ring stator}
2/166	• • • {Motors with disc stator}
2/18	• producing electrical output from mechanical input, e.g. generators (for measurement devices <u>G01</u>)
2/181	• • {Circuits; Control arrangements or methods}
2/183	• • {using impacting bodies (high voltage generators in spark lighters <u>F23Q</u>)}
2/185	• • {using fluid streams}
2/186	• • {Vibration harvesters}
2/188	• • {adapted for resonant operation}
2/22	• {Methods relating to manufacturing, e.g. assembling, calibration}
3/00	Generators in which thermal or kinetic energy is converted into electrical energy by ionisation of a fluid and removal of the charge therefrom (discharge tubes functioning as thermionic generators <u>H01J 45/00</u>)
10/00	Electric motors using thermal effects {(motors
	using expansion or contraction of bodies due to
	heating or cooling <u>F03G 7/06</u>)}
11/00	Generators or motors not provided for elsewhere; Alleged perpetua mobilia obtained by electric
	or magnetic means (by hydrostatic pressure
	F03B 17/04; {by mechanical means F03G 7/10;} by
	dynamo-electric means, {including arrangements of
	permanent magnets interacting with other permanent
	magnets,} <u>H02K 53/00</u>)
11/002	• {Generators}
11/004	• {adapted for producing a desired non-sinusoidal waveform}
11/006	(Allowed allowing a managers and biling)
11/008	• {Alleged electric or magnetic <u>perpetua mobilia</u> }
13/00	Clutches or holding devices using electrostatic attraction, e.g. using Johnson-Rahbek effect

Holding or levitation devices using magnetic attraction or repulsion, not otherwise provided for (electric or magnetic devices for holding work on machine tools <u>B23Q 3/15</u> {; monorail vehicle propulsion or suspension <u>B60L 13/00</u>}; sliding or levitation devices for railway systems B61B 13/08; material handling devices associated with conveyors incorporating devices with electrostatic or magnetic grippers <u>B65G 47/92</u>; separating thin or filamentary articles from piles using magnetic force B65H 3/16; delivering thin or filamentary articles from magnetic holders by air blast or suction B65H 29/24; bearings using magnetic or electric supporting means F16C 32/04; relieving bearing loads using magnetic means F16C 39/06; magnets H01F 7/00; dynamoelectric clutches or brakes H02K 49/00 {; electric furnaces with simultaneous levitation and heating H05B 6/32})

15/02 . by Foucault currents

15/00

15/04

- Repulsion by the Meissner effect (superconductors or hyperconductors in general <u>H10N 60/00</u>)
- 99/00 Subject matter not provided for in other groups of this subclass

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