

Search history

Search 1: FT=(electromagnet* and bipole) (Results 330)

Search 2: 1. coils* and yoke* (Results 148)

1) Family number: 48430005 (US2012160190A)

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Title: PISTON ENGINE HAVING MAGNETIC PISTON BEARING

Abstract: A piston engine has a housing and a piston. The piston is magnetically and movably disposed in the housing. A device for magnetically supporting the piston is fixedly mounted relative to the housing. A linear machine in conjunction with the magnetic bearing of the piston can prevent friction and thus result in a machine for converting mechanical into electric energy without having to lubricate and with reduced mechanical effort.

Classifications:

International (IPC 8-9): F02B63/00 F02B71/00 F02B75/00 F02B77/00 F02F7/00 F16C29/00 F16C31/00 F16C32/04 F16J1/10

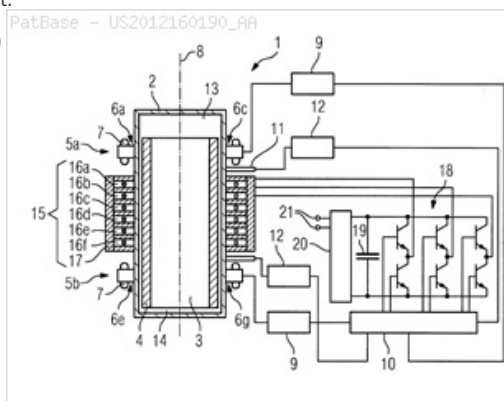
H02K7/09 (Advanced/Invention);

F02B63/04 F02B75/16 F02B77/13 (Advanced/Non-invention)

CPC: F02B63/04 F02B63/044 F02B75/16 F02B77/13 F16C32/0472 F16C32/048 F02B71/00

European: F02B71/00 F16C32/04M4L F16C32/04M4R2

US: 123/197.1 123/197.100S 123/2 123/2P



Family:

Publication number	Publication date	Application number	Application date
BR112012004963 A2	20160405	BR20121104963	20100826
CA2772845 AA	20110310	CA20102772845	20100826
CA2772845 C	20140617	CA20102772845	20100826
CN102482994 A	20120530	CN201080039291	20100826
CN102482994 B	20140709	CN201080039291	20100826
DE102009040051 A1	20110310	DE200910040051	20090903
DE102009040051 B4	20140508	DE200910040051	20090903
DE502010010062 D1	20150924	DE201050010062T	20100826
EP2473725 A1	20120711	EP20100750088	20100826
EP2473725 B1	20150812	EP20100750088	20100826
IN00186KN2012 A	20121026	IN2012KN00186	20120127
JP2013504002 T2	20130204	JP20120527284T	20100826
JP5518196 B2	20140611	JP20120527284T	20100826
KR101378694 B1	20140327	KR20127005646	20100826
KR20120054029 A	20120529	KR20127005646	20100826
RU2012112815 A	20131010	RU20120112815	20100826
RU2502882 C2	20131227	RU20120112815	20100826
US2012160190 AA	20120628	US20100394254	20100826
US8978595 BB	20150317	US20100394254	20100826
WO11026774 A1	20110310	WO2010EP62438	20100826

Priority:

DE200910040051 20090903 EP20090040051 20090903 WO2010EP62438 20100826
EP20100750088 20100826

Probable Assignee: SIEMENS AG

Assignee(s): (std): KLOEPZIG MARKUS ; SIEMENS AG

Assignee(s): SIEMENS AKTIENGESELLSCHAFT ; SIMENS AKTSIENGEZELL SHAFT

Inventor(s): (std): KLOEPZIG MARKUS ; MARKUS KLOEPZIG ; KLEPZIG MARKUS ; KLOEPZIG MARKUS DR

Agent(s): SMART AND BIGGAR; WOLFF HARRY; YAMAGUCHI IWAO; STAAS AND HALSEY LLP; SIEMENS AKTIENGESELLSCHAFT

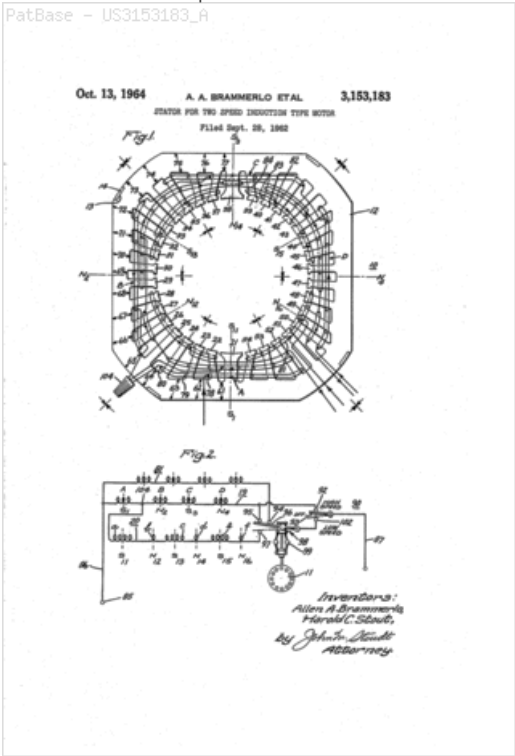
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Title: STATOR FOR TWO SPEED INDUCTION TYPE MOTOR

Abstract: (Claim 1) 1. In a single phase induction type motor for opération selectively at two speeds, a stator including mag-netic core comprising a yoke section and a plurality of angularly spaced apart teeth sections together defining 25 a number of slots; a first main winding comprising a plurality of coils positioned in said slots to form at least two primary magnetic running pôles for operating the motor at one speed; a second main winding having a plurality of coils positioned in said slots; at least a part of the 30 coils of one primary running pole of said first winding connected in séries relation with said second winding for energization therewith; said last-mentioned coils of said one pole being located in the same slots of the core as coils of said second main winding and being arranged in 35 additive magnetic relation therewith when said second Winding is energized; said additive serially connected coils of both windings, together with the remaining coils of said second winding, defining an even number of primary running pôles in excess of the number of the first winding 40 running pôles; the yoke section having a minimum magnetic depth in the région directly over the slots near the center of each of the lesser number of running poles and a maximum depth. adjacent the région directly over the slots near the extremities of each of said last-mentioned 45 poles; and the teeth sections located adjacent the respective centers of the higher number of running poles being greater in width than those respectively located at the extremities of the same poles.

Classifications:

International (IPC 8-9): H02K17/06 (Advanced/Invention);
H02K17/02 (Core/Invention)
International (IPC 1-7): H02K17/06 H02P1/12 H02P1/38 H02P5/08
CPC: H02K17/06
European: H02K17/06
US: 310/185 318/774



Family:

Publication number	Publication date	Application number	Application date
US3153183 A	19641013	US19620226894	19620928

Priority:

US19620226894 19620928

Probable Assignee: GEN ELECTRIC
Assignee(s): (std): GEN ELECTRIC
Assignee(s): GENERAL ELECTRIC CO ; GENERAL ELECTRIC COMPANY
Inventor(s): (std): BRAMMERLO ALLEN A ; STOUT HAROLD C

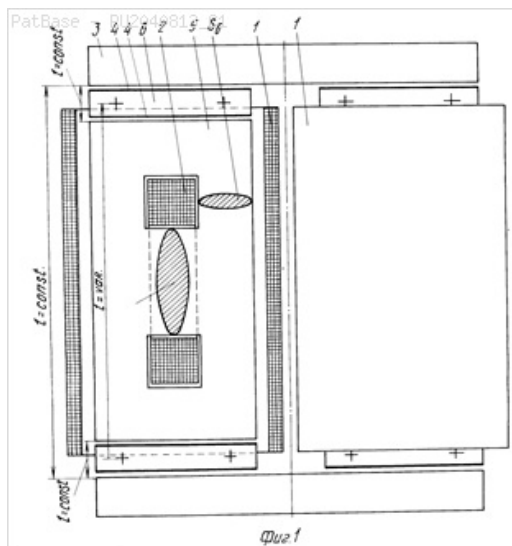
Title: SATURABLE REACTOR

Abstract:

FIELD: electrical and power engineering. **SUBSTANCE:** reactor has coils of main winding 1, coils of control winding 2, fastenings, magnetic system with legs and yokes 3 separated by nonmagnetic gaps from each other and provided with insulating components 4; magnetic system legs are essentially separate shell-type cores 5 with central legs and side yokes placed orthogonally in respect to center lines of main winding coils; central legs of shell-type cores carry coils of control winding 2; reactor has additional fastenings and electric sheet steel inserts 6 arranged so that nonmagnetic gaps are formed between yokes and shell-type cores relatively symmetrical with the latter and made for opposing displacement relative to yoke and cores along center lines of main winding coils; planes of inserts 6 coincide with those of shell-type cores 5 and part of insulating components 4 are primarily made in the form of epoxide compound coat applied to ends of sheets of inserts 6 on sides abutting yokes and shell-type cores 5. **EFFECT:** reduced harmonic content in reactor working current, reduced loss, improved regulation percentage and reactor power. 4 cl, 2 dwg

Classifications:

International (IPC 8-9): H01F21/06 H01F27/30
H01F29/14 (Advanced/Invention);
H01F21/02 H01F29/00 (Core/Invention)
International (IPC 1-7): H01F21/06 H01F29/14



Family:

Publication number	Publication date	Application number	Application date
RU2040813 C1	19950725	RU19920015102	19921225
RU92015102 A	19950827	RU19920015102	19921225

Priority:

RU19920015102 19921225

Probable Assignee: TS K B MODERNIZATSII I REMONTU

Assignee(s): (std): TS K B MODERNIZATSII I REMONTU

Assignee(s): TSENTRALNOE KONSTRUKTORSKOE BYURO PO MODERNIZATSII ; TSENTRALNOE KONSTRUKTORSKOE BYURO PO MODERNIZATSII I REMONTU ENERGETICHESKOGO OBOURODOVANIYA ELEKTROSTANTSII

Inventor(s): (std): DOROZHKO LEONID I ; FEDOSOV LEONID L

4) Family number: 46711012 (US2011316381A)

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Title: ARMATURE CORE

Abstract: Teeth are arranged annularly around a rotation axis. The yoke has through holes. The through holes open in a radial direction around the rotation axis and in an axial direction along the rotation axis. The teeth are inserted through the through holes. A metal plate is arranged to face the yoke in the axial direction. A reinforcing plate is fixed to the teeth.

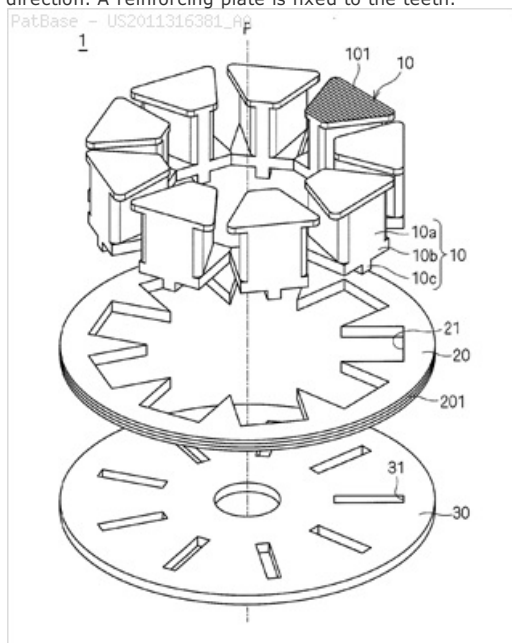
Classifications:

International (IPC 8-9): H02K1/06 H02K1/08 H02K1/14 H02K1/16 H02K1/18 (Advanced/Invention)

CPC: H02K1/148 H02K21/24 H02K1/182

European: H02K1/14D1 H02K1/18A H02K21/24

US: 310/216.045 310/216.045P 310/216.057 310/216.058 310/216.079 310/254.1



Family:

Publication number	Publication date	Application number	Application date
CN102326317 A	20120118	CN201080009575	20100224
CN102326317 B	20150401	CN201080009575	20100224
DE112010000934 T5	20120927	DE201011000934T	20100224
JP2010200555 A2	20100909	JP20090044845	20090226
JP2011045241 A2	20110303	JP20100269321	20101202
JP4710993 B2	20110629	JP20090044845	20090226
JP5093336 B2	20121212	JP20100269321	20101202
KR101224716 B1	20130121	KR20117019742	20100224

KR20110119751 A	20111102	KR20117019742	20100224
US2011316381 AA	20111229	US20100148500	20100224
US8736135 BB	20140527	US20100148500	20100224
WO10098336 A1	20100902	WO2010JP52819	20100224

Priority:

JP20090044845 20090226 WO2010JP52819 20100224 JP20100269321 20101202

Probable Assignee: DAIKIN IND

Assignee(s): (std): ASANO YOSHINARI ; DAIKIN IND ; DAIKIN IND LTD ; YASUMOTO RYUJI ; KIFUJI NOBUYUKI ; NAKAMASU SHIN ; KIKUNO TOMONORI

Assignee(s): DAIKIN INDUSTRIES ; DAIKIN INDUSTRIES LTD

Inventor(s): (std): YASUMOTO TATSUSHI ; KIKUNO TOMOKAZU ; KITO ATSUSHI ; TOMONORI KIKUNO ; RYUJI YASUMOTO ; YOSHINARI ASANO ; SHIN NAKAMASU ; NOBUYUKI KIFUJI ; KIKUNO TOMONORI ; NAKAMASU SHIN ; ASANO YOSHINARI ; KIFUJI NOBUYUKI ; YASUMOTO RYUJI

Agent(s): BIRCH STEWART KOLASCH AND BIRCH LLP; YOSHITAKE HIDETOSHI ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 6678016 (JP55037768A)

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Title: DEFLECTING YOKE

Abstract: PURPOSE: To reduce the weight and cost by making the length of troidal winding of core in tro-cla type deflecting yoke longer than the length of other portion thereby reducing the core material and the amount of copper. CONSTITUTION: The portion except the portion 1b where coils 2a, 2b are not wound is shortened to form the core 1. Coils 2a, 2b are wound over said core 1. The amount of copper in coils 2a, 2b can be reduced as much the length of core 1 is shortened resulting in the weight reduction of deflector yoke.

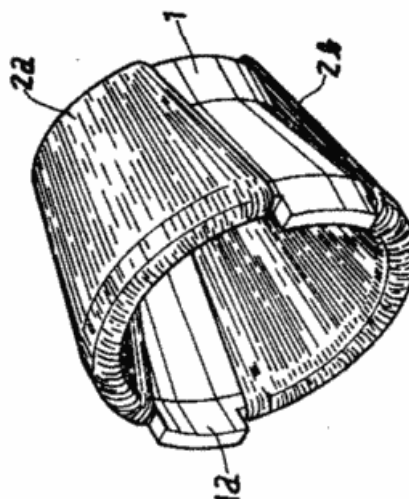
Classifications:

International (IPC 8-9): H01J29/76 (Advanced/Invention);

H01J29/76 (Core/Invention)

International (IPC 1-7): H01J29/76

PatBase - JP55037768_A2



Family:

Publication number	Publication date	Application number	Application date
JP55037768 A2	19800315	JP19780110971	19780908

Priority:

JP19780110971 19780908

Probable Assignee: SONY CORP

Assignee(s): (std): SONY CORP

Inventor(s): (std): KOU YOSHIO ; TERASAKI OSAMU

6) Family number: 33751021 (KR20050054561A)

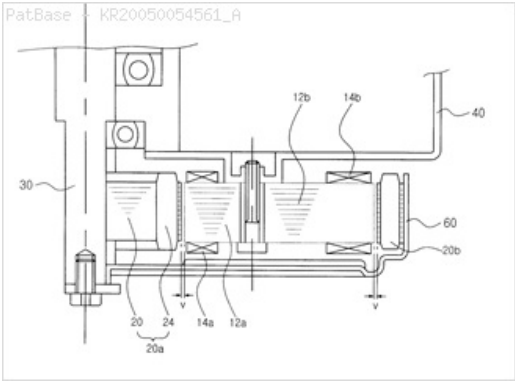
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Title: INDUCTION MOTOR WITH IN A DOUBLE ROTOR

Abstract: Source: KR100555768B **Machine translation:** The output of this invention is torque can improve energy efficiency while improving the double rotor type motor is all about is transferring a fixed base axis stand. the output part of the drive shaft that is installed on the drive shaft circumference; the 1st iron core and rotor the rotor conductors and end ring by closed circuit to form a coil winding rotor core (1), and that, with the introduction of the incense for the rotor core (1), and the drive shaft to work with yokeuro extension has been created including the conductor of the second rotor end rings in his closed-circuit to form a second rotor core containing a wealth of the rotor with the rotor core (1), the prescribed; and void the rotor (1) while maintaining core laminated around and take the slots along the No. 1 coils The No. 1 winding stator iron-

Auricular alternately grated (1) provided with the absence, the second rotor core with a small air gap due to some overlap (1) while maintaining a laminated and outsource the second coil windings with a slot along the second stator iron in the absence of the second trial being offered alternate between steel plates containing double rotor type motor with stator. According to this invention, the distance between the Center and the induction of the magnetic flux is the increase in torque increases the current, so you can save power consumption has been increased internal space utilization cost savings will be in effect. **Keywords** motor, stator, rotor, inner, outer

Classifications:
International (IPC 8-9): H02K16/02 (Advanced/Invention);
H02K16/02 (Advanced/Non-invention);
H02K16/00 (Core/Invention)
International (IPC 1-7): H02K16/02
CPC: H02K16/02



Family:

Publication number	Publication date	Application number	Application date
KR100555768 B1	20060303	KR20030087945	20031205
KR20050054561 A	20050610	KR20030087945	20031205

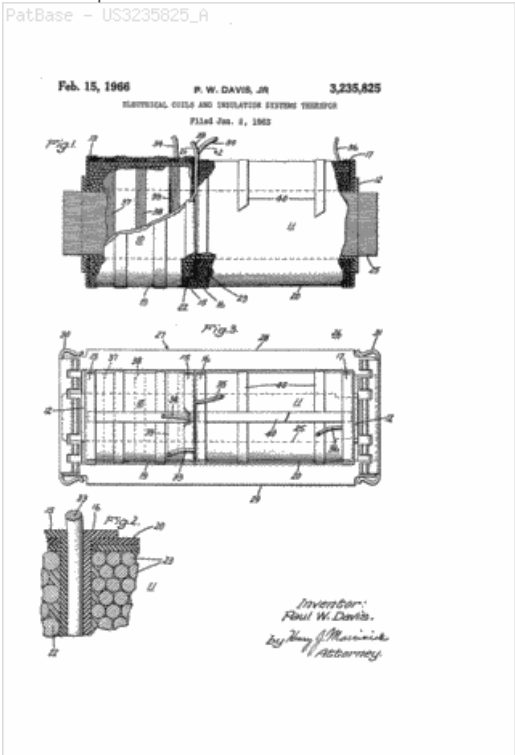
Priority:
KR20030087945 20031205
Probable Assignee: DAEWOO ELECTRONICS CORP
Assignee(s): (std): DAEWOO ELECTRONICS ; DAEWOO ELECTRONICS CORP
Inventor(s): (std): HAN SEOUNG YONG

7) Family number: 22640044 (US3235825A) © PatBase

Title: ELECTRICAL COILS AND INSULATION SYSTEMS THEREFOR

Abstract: (Claim 1) 1. A fluorescent lamp ballast comprising a shell-type magnetic core having an inner leg and two outer legs; eyanoethylated paper surrounding at least a part of said inner leg of said core; a coil surrounding said pape_r, said coil being formed of a plurality of layers each having a plurality of turns of insulated conductor wire, each of said layers being wound without electrical sheet insulation therebetween; and a reaction mixture impregnating said ballast, said reaction mixture comprising by weight (a) from 40 to 70 percent of a 1 3-butadiene and styrene copolymer, (b) from 20 to 60 _e,,ent of liq,,id mo,,,,r, containing vinyl unsaturation, and (c) from .25 to percent of a peroxide initiator.

Classifications:
International (IPC 8-9): H01F27/32 (Advanced/Invention);
H01F27/32 (Core/Invention)
International (IPC 1-7): H01F27/30 H01F37/00
CPC: Y10S174/02 H01F27/327
European: H01F27/32E
US: 162/138 174/524 174/DIG.2 336/205 336/209 336/96 525/263 525/265 525/316



Family:

Publication number	Publication date	Application number	Application date
US3235825 A	19660215	US19630249100	19630102

Priority:
US19630249100 19630102

Probable Assignee: GEN ELECTRIC
Assignee(s): (std): GEN ELECTRIC
Assignee(s): GENERAL ELECTRIC CO ; GENERAL ELECTRIC COMPANY
Inventor(s): (std): DAVIS JR PAUL W
Inventor(s): JR PAUL W DAVIS

8) Family number: 4207045 (US4951277A)

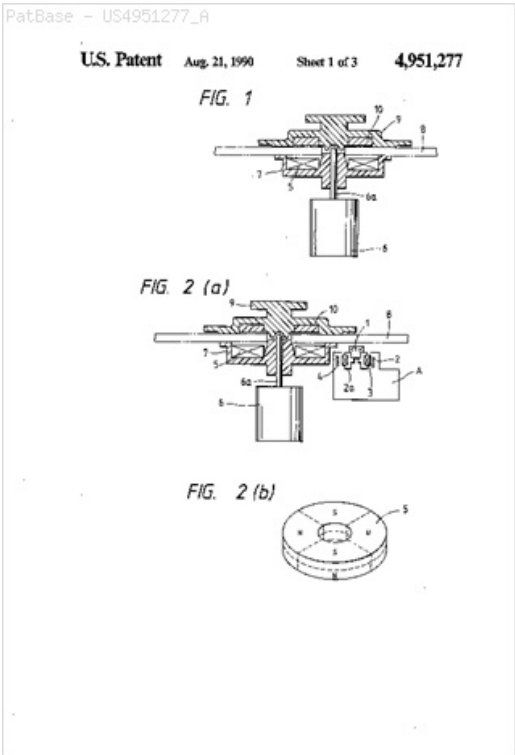
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Title: Optical disk player

Abstract: In an optical disk player, the disk clamber magnet (5) is so constructed as to prevent the resonance of the pickup actuator (2) as the pickup (A) approaches the inner circumference of the disk due to interaction between the clamber magenet and actuator magnets as the clamber magnet rotates. This structure avoids the resonance problem which is especially prevalent when a pickup approaches an inner disk circumference during playing. Therefore, it is possible to prevent an increase in rate of occurrence of tracking errors or the like which hinder reproducing capability or even make the tracking servo inoperative in an extreme case.

Classifications:

International (ipc 8-9): G11B17/028 G11B25/04 G11B7/0037 G11B7/09 G11B7/095 (Advanced/Invention); G11B17/028 G11B25/04 G11B7/00 G11B7/09 G11B7/095 (Core/Invention)
International (ipc 1-7): G11B17/028 G11B25/04 G11B7/00 G11B7/095
CPC: G11B7/0037 G11B7/093 G11B17/0284
European: G11B17/028E G11B7/0037 G11B7/09D3
US: 369/270 369/271 369/290 720/710 G9B/17.006 G9B/7.005 G9B/7.082



Family:

Publication number	Publication date	Application number	Application date
DE68917835 D1	19941006	DE19896017835	19890215
DE68917835 T2	19950406	DE19896017835	19890215
EP0357171 A2	19900307	EP19890301437	19890215
EP0357171 A3	19910508	EP19890301437	19890215
EP0357171 B1	19940831	EP19890301437	19890215
JP1986690 C3	19951108	JP19880215107	19880831
JP2064983 A2	19900305	JP19880215107	19880831
JP7021954 B4	19950308	JP19880215107	19880831
US4951277 A	19900821	US19890312985	19890221

Priority:

JP19880215107 19880831

Probable Assignee: PIONEER ELECTRONIC CORP

Assignee(s): (std): PIONEER ELECTRONIC CORP

Assignee(s): PIONEER ELECTRONIC CORP TOKIO TOKYO JP ; PIONEER ELECTRON CORP

Inventor(s): (std): MASUNAGA YOSHIFUMI ; SHIMODA YOSHITAKA ; SIMODA YOSHITAKA ; SIMODA YOSHITAKA PIONEER ELECT ; MASUNAGA YOSHIFUMI PIONEER ELE

Inventor(s): SIMODA YOSHITAKA PIONEER ELECTRONIC ; SIMODA YOSHITAKA PIONEER ELECTRONIC CORPORATION ; SIMODA YOSHITAKA PIONEER ELECTRONIC CORPORATION TO ; MASUNAGA YOSHIFUMI PIONEER ELECTRONIC ; MASUNAGA YOSHIFUMI PIONEER ELECTRONIC CORPORATION

Designated states: DE FR GB

9) Family number: 18176046 (GB140789A)

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Title: Automatic control mechanism for electric furnaces

Abstract: 140,789. Scovill Manufacturing Co., (Assignees of Bennett, M. H.). June 26, 1918, [Convention date]. Electrode furnaces.-An automatic controller, maintaining constant both the power supplied to a furnace and the proportion of this power delivered by each of a number of electrodes, is responsive to unbalanced changes in the current, the pressure, or the power

factor. As shown, each electrode 2, 3, or 4 of a 3-phase furnace is adjusted by a reversible motor 30, 31, or 32, to the armature of which current can be directed through either of two oppositely-wound field coils by a switch lever 54 and fixed contacts 38, 40 from direct-current mains 33, 41. Each arm of the switch lever carries a coil moving between two fixed coils. The three coils 57 - 59 of one set are all in series in a circuit from the supply conductor 7 of electrode 2 to a hearth contact 67. Of the other set of coils, which oppose the first set, the two outer 74, 75 are in series with a transformer 77 in the supply conductor 7, while the movable coil 73 is connected to the supply conductor 7 and either to a neutral point or, as shown, to the supply conductor 6 to another electrode 3, so as to form a delta arrangement with the corresponding coils of the other regulators. A rheostat 81 is in circuit with the pressure coil 73.

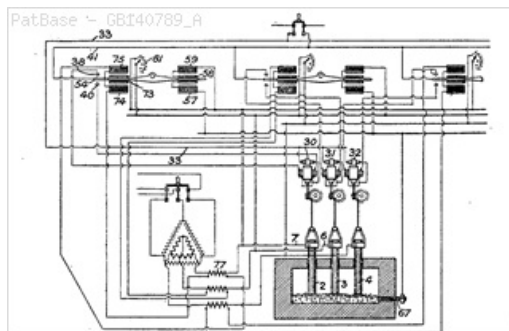
Classifications:

International (IPC 8-9): A01B71/06 B07B1/42 B61L3/04 F16D31/06 H05B3/00 H05B7/00 (Advanced/Invention)

International (IPC 1-7): H05B7/152

CPC: B07B1/42 A01B71/06 H05B3/0023 H05B7/005 H05B3/60 B61L3/04 F16D31/06

European: A01B71/06 B07B1/42 B61L3/04 F16D31/06 H05B3/00C1 H05B3/60 H05B7/00C



Family:

Publication number	Publication date	Application number	Application date
FR22943 E	19210906		00000000
FR22944 E	19210906		00000000
FR23363 E	19211116		00000000
FR23364 E	19211116		00000000
FR511438 A	19201224		19200310
GB140789 A	19201021	GB19200008711	19200324
NL8772 C	00000000		00000000

Probable Assignee: SCOVILL MANUFACTURING CO

Assignee(s): (std): ALBERT LEGRAND ; BUEHLER FRERES ; CELESTIN DELMAS ; CHARLES FOURNIER ; SCOVILL MFG CO ; SCOVILL MANUFACTURING CO ; PIERRE MARIE ETIENNE ERNEST GU

Assignee(s): PIERRE MARIE ETIENNE ERNEST GUIGNOT ; SCOVILL MANUFACTURING COMPANY

Inventor(s): (std): DELMAS CELESTIN ; FOURNIER CHARLES ; GUIGNOT PIERRE MARIE ETIENNE ; LEGRAND ALBERT

10) Family number: 62065047 (US2018358873A)

© PatBase

Title: MAGNETLESS ROTARY ELECTRIC MACHINE

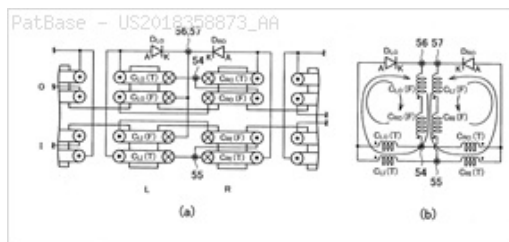
Abstract: The magnetless rotary electric machine includes an annular rotor, an outer stator and an inner stator. The annular rotor includes an annular rotor yoke portion, outer salient poles, outer rotor coils, inner salient poles, inner rotor coils, first rectifying devices and second rectifying devices. The first salient pole is configured to be magnetized by an induction current induced by the first coil. Each of the first rectifying devices is configured to rectify current such that a direction of a magnetic pole of the first salient pole is a first direction. The second salient pole is configured to be magnetized by an induction current induced by the second coil. Each of the second rectifying devices is configured to rectify current such that an direction of a magnetic pole of the second salient pole is a second direction. The second direction is a reverse direction to the first direction.

Classifications:

International (IPC 8-9): H02K1/14 H02K1/24 H02K11/042 H02K16/04 H02K17/12 H02K19/12 H02K3/28

H02P27/06 (Advanced/Invention)

CPC: H02K1/24 H02K3/28 H02P27/06 H02K1/14 H02K17/12 H02K11/042 H02K16/04



Family:

Publication number	Publication date	Application number	Application date
CN107078570 A	20170818	CN201580053408	20150929
DE602015010231 D1	20180517	DE201560010231T	20150929
EP3202020 A2	20170809	EP20150784463	20150929
EP3202020 B1	20180418	EP20150784463	20150929
JP2016073166 A2	20160509	JP20140203677	20141002
JP6176217 B2	20170809	JP20140203677	20141002
US2018358873 AA	20181213	US20150514256	20150929
WO16051250 A2	20160407	WO20151B01712	20150929
WO16051250 A3	20160901	WO20151B01712	20150929

Priority:

JP20140203677 20141002 EP20150784463 20150929 WO20151B01712 20150929

Probable Assignee: TOYOTA MOTOR CO LTD

Assignee(s): (std): TOYOTA MOTOR CO LTD ; TOYOTA MOTOR CORP

Assignee(s): TOYOTA JIDOSHA KK ; TOYOTA JIDOSHA TOYOTA SHI KK

Inventor(s): (std): IGARASHI HIDEKAZU ; YAMADA EIJI

Inventor(s): YAMADA EIJI TOYOTA SHI ; IGARASHI HIDEKAZU TOYOTA SHI

Agent(s): WINTER BRANDL FUERNISS HUEBNER ROESS KAISER POLTE PARTNERSCHAFT MBB PATENTANWALTE;

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

11) Family number: 21168048 (US2297789A)

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Title: TRANSCRIBING APPARATUS

Abstract: 1. In a machine for operating on a plurality of indicia bearing record bodies, means to express the indicia of a record body, sequentially related, preliminarily and variably conditionable selectors for variably preselecting a series of bodies and one sequence or another in which the bodies of the series are to have their indicia subsequently expressed, means acting in conjunction with the selectors for cooperatively relating the preselected bodies of the series to the indicia expressing means, and means for causing the indicia expressing means to express the indicia of the preselected bodies of the series in the preselected sequence.

Classifications:

International (IPC 8-9): B41J5/38 (Advanced/Invention);

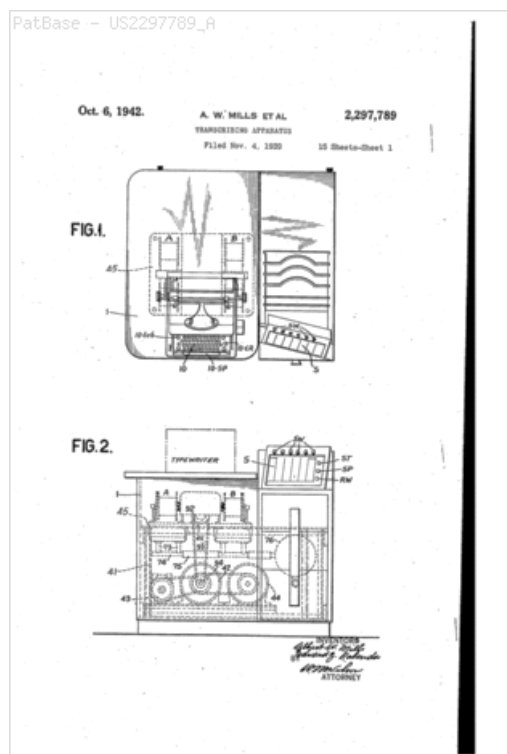
B41J5/31 (Core/Invention)

International (IPC 1-7): G06C27/00 G06K15/02

CPC: B41J5/38

European: B41J5/38

US: 400/68



Family:

Publication number	Publication date	Application number	Application date
US2297789 A	19421006	US19390302884	19391104

Priority:

US19390302884 19391104

Probable Assignee: IBM

Assignee(s): (std): IBM

Assignee(s): INT BUSINESS MACHINES CORP ; INTERNATIONAL BUSINESS MACHINES CORP

Inventor(s): (std): MILLS ALBERT W ; RABENDA EDWARD J

12) Family number: 57487060 (US2014292456A)

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Title: REACTOR

Abstract: A reactor includes an annular core, coils, a sensor detecting a state of the reactor, and a connector outputting signal from the sensor. Resin-molded bodies are provided around the annular core. The resin-molded body has bobbins for the respective coils and core covering portions formed integrally with each other. An exposed area where no resin covers the bottom of the core is formed in the lower face of the covering portions. A holder to fasten the connector is formed integrally with the upper portion of the covering portion. An assembly including the resin-molded bodies in which the annular core is embedded, and the coils wound around the bobbins are retained in a metal casing. A clearance is formed between the assembly and the casing, and a filler is filled in this clearance. The filler covers the exposed area of the core bottom.

Classifications:

International (IPC 8-9): H01F17/00 H01F27/00 H01F27/02 H01F27/08

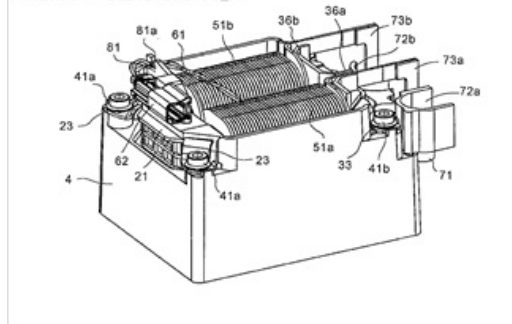
H01F27/24 H01F27/26 H01F27/29 H01F27/30 H01F27/32 H01F27/40

H01F37/00 (Advanced/Invention)

CPC: H01F27/402 H01F27/263 H01F27/29 H01F27/306 H01F27/325

H01F37/00 H01F2027/406 H01F27/00

US: 1/1 336/105 336/55

**Family:**

Publication number	Publication date	Application number	Application date
JP2014199866 A2	20141023	JP20130074694	20130329
JP2015103627 A2	20150604	JP20130242355	20131122
JP6215556 B2	20171018	JP20130074694	20130329
JP6343141 B2	20180613	JP20130242355	20131122
US2014292456 AA	20141002	US20140219863	20140319
US2016217921 AA	20160728	US20160090448	20160404
US9343223 BB	20160517	US20140219863	20140319
US9881730 BB	20180130	US20160090448	20160404

Priority:

JP20130074694 20130329 JP20130242355 20131122 US20140219863 20140319
 US20160090448 20160404

Probable Assignee: TAMURA CORP

Assignee(s): (std): TAMURA SEISAKUSHO KK

Assignee(s): TAMURA CORP ; TAMURA SEISAKUSHO CO LTD

Inventor(s): (std): INOUE NAOKI ; NAKATSU RYO ; SUZUKI KOTARO ; MAENO KENSUKE

13) Family number: 12313087 (JP7123622A)

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Title: PERMANENT MAGNET TYPE ROTATING MACHINE

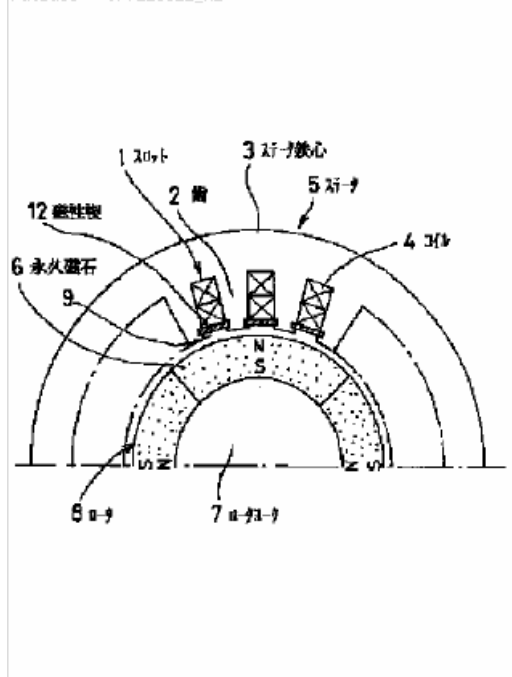
Abstract: PURPOSE: To configure a permanent magnet type rotating machine having a good characteristic, by improving the raw material of a magnetic wedge in the opening part of the slot of its stator, and by reducing the thermal and magnetic losses in the magnetic wedge during the rotation of its rotor. CONSTITUTION: A permanent magnet type rotating machine comprises a stator 5 and a rotor 8. In a stator core 3 of the stator 5, slots 1 and teeth 2 are provided, and in each slot 1, coils 4 are provided. In the rotor 8, permanent magnets 6 to give the magnetic field of the rotating machine are provided on a rotor yoke 7 made of a magnetic material. In this permanent magnet type rotating machine, as a magnetic wedge 12, a small piece of a dust core is provided in the opening part of each slot 1. The small piece of a dust core is obtained by molding of the compound made of a magnetic metal powder and a resin used both as an insulator and as a binder.

Classifications:

International (IPC 8-9): H02K21/14 H02K3/493 (Advanced/Invention);
 H02K21/14 H02K3/48 (Core/Invention)

International (IPC 1-7): H02K21/14 H02K3/493

PatBase - JP7123622_A2

**Family:**

Publication number	Publication date	Application number	Application date
JP7123622 A2	19950512	JP19930271763	19931029

Priority:

JP19930271763 19931029

Probable Assignee: TOSHIBA CORP
Assignee(s): (std): TOSHIBA CORP
Assignee(s): TOSHIBA KK ; KABUSHIKI KAISHA TOSHIBA
Inventor(s): (std): HASEBE TOSHIRO ; SAKAI KAZUTO
Agent(s): MIYOSHI HIDEKAZU

14) Family number: 2304093 (US4408313A)

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Title: Objective lens driving device for tracking and focus corrections

Abstract: An objective lens driving device useable in an information reading-out apparatus for projecting a light spot onto a record medium which has been spirally or concentrically recorded with one or more information tracks and for reading-out the information, which drives the objective lens in a direction perpendicular to its optical axis and the information track, thereby correcting relative positional error, i.e. tracking error, between the information track and the light spot. It comprises at least one set of objective lens driving means, each set including a movable member movable together with the objective lens, a coil wound around a stationary yoke, and an objective lens supporting means for movably supporting the objective lens in a direction perpendicular to the optical axis of the objective lens and information track, said coil being supplied with an electric current corresponding to a tracking error signal representing the relative positional error so as to displace the movable member and objective lens and information track and thereby to correct the tracking error.

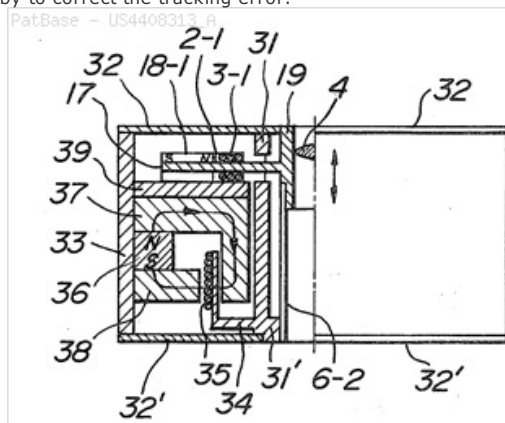
Classifications:

International (IPC 1-7): G11B7/08 G11B7/12

CPC: G11B7/093 G11B7/0932

European: G11B7/09D3 G11B7/09D4

US: 369/44 369/44.16 369/45 G9B/7.082 G9B/7.083



Family:

Publication number	Publication date	Application number	Application date
JP57020927 A2	19820203	JP19800093568	19800709
US4408313 A	19831004	US19800216522	19801215

Priority:

JP19800093568 19800709

Probable Assignee: OLYMPUS OPTICAL CO

Assignee(s): (std): OLYMPUS OPTICAL CO

Assignee(s): OLYMPUS OPTICAL CO LTD ; OLYMPUS OPTICAL COMPANY LIMITED

Inventor(s): (std): MUSHA TOORU ; MUSHA TORU ; MUSHIYA TOORU

15) Family number: 60160099 (US2016352171A)

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Title: DIRECT CURRENT MOTOR

Abstract: The purpose of the present invention is to provide a direct current motor wherein the number of coil-connecting wires that cross the outer surface of a coil end part is reduced. In a direct current motor that is provided with an armature that has a plurality of armature slots and has an armature coil that is wound so as to span two armature slots that are separated by a fixed number of armature slots, a lowermost layer of a coil end part is provided with at least four armature coils that are wound through other armature slots so as not to coincide with the wound armature coil, and a layer above the four armature coils that are wound on the bottommost layer is provided with at least four armature coils that are wound in the same manner as the four armature coils.

Classifications:

International (IPC 8-9): H02K1/26 H02K15/04 H02K23/26

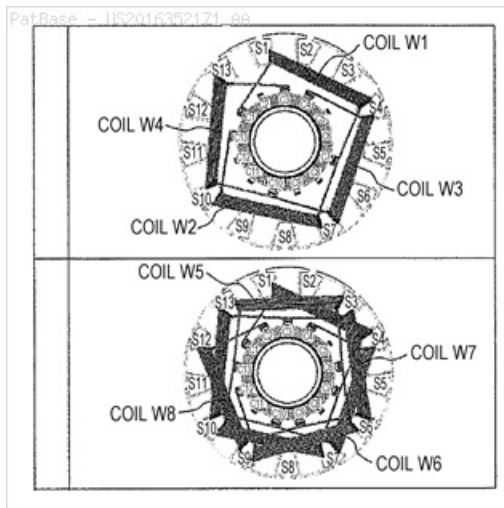
H02K23/28 H02K23/30 H02K23/32 H02K3/12

H02K3/28 (Advanced/Invention)

CPC: H02K3/28 H02K3/12 H02K1/26 H02K23/32 H02K23/28

H02K23/30

US: 310/177

**Family:**

Publication number	Publication date	Application number	Application date
CN106030992 A	20161012	CN201580008890	20150114
CN106030992 B	20181221	CN201580008890	20150114
JP2015122226 A1	20170330	JP20150562762T	20150114
JP6258978 B1	20180110	JP20150562762T	20150114
US2016352171 AA	20161201	US20150117335	20150114
US10170954 BB	20190101	US20150117335	20150114
WO15122226 A1	20150820	WO2015JP50705	20150114

Priority:

JP20140027190 20140217 WO2015JP50705 20150114

Probable Assignee: HITACHI AUTOMOTIVE SYSTEMS LTD**Assignee(s):** (std): HITACHI AUTOMOTIVE SYSTEMS LTD**Inventor(s):** (std): HOSOYA MASAHIRO ; TANIGUCHI TSUKASA ; IWAKI HIDEFUMI ; KASHIWA KOICHI**Agent(s):** CROWELL AND MORING LLP; INOUE MANABU ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

16) Family number: 4874107 (US4597680A)

© PatBase

Title: Dot printer head with alternate magnetic flux paths

Abstract: The printhead is constructed such that opposed surfaces of armatures are formed between the armatures adjacent to each other with small gap being left therebetween and cores opposed to each of the armatures are provided with alternative opposed magnetic fluxes. The armatures are supported in such a way that the guide holes formed in the middle of each armature are engaged with the fixed armature guides without interfering with their side surfaces, and thereby side magnetic paths of sufficient cross sectional area can be formed, and further their equivalent mass can be decreased and a high speed printing is enabled, and the armatures can be moved smoothly.

Classifications:

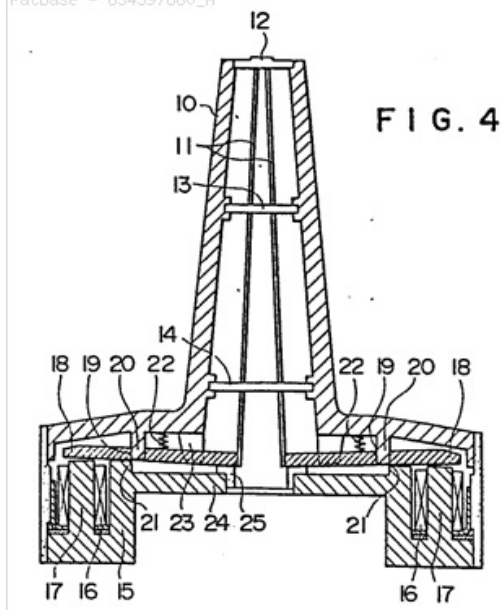
International (ipc 8-9): B41J2/24 B41J2/275 (Advanced/Invention); B41J2/235 B41J2/27 (Core/Invention)

International (ipc 1-7): B41J2/275 B41J3/10 B41J3/12

CPC: B41J2/275 B41J2/24

European: B41J2/24 B41J2/275

US: 101/93.05 400/124 400/124.18 400/124.23

**Family:**

Publication number	Publication date	Application number	Application date
DE3469700 D1	19880414	DE19843469700	19840925
EP0141522 A1	19850515	EP19840306522	19840925
EP0141522 B1	19880309	EP19840306522	19840925
JP1608874 C3	19910628	JP19830177266	19830926
JP2035669 B4	19900813	JP19830177266	19830926
JP60067170 A2	19850417	JP19830177266	19830926
US4597680 A	19860701	US19840654022	19840925

Priority:

JP19830177266 19830926

Probable Assignee: TOKYO ELECTRIC CO LTD

Assignee(s): (std): TOKYO ELECTRIC CO LTD

Assignee(s): TOKYO DENKI KK ; TOKYO ELECTRIC CO

Inventor(s): (std): NORIGOE TAKASHI ; NORIKOSHI TAKASHI ; OCHIAI KUNIAKI

Designated states: DE FR GB

17) Family number: 13317110 (US5689369A)

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Title: ANGULAR DEVIATION DETECTION APPARATUS

Abstract: There is provided an angular deviation state detection apparatus which detects the deviation state of a movable portion which can deviate, and has a detection portion for detecting a predetermined angular deviation component of the movable portion without being influenced by a deviation component of the movable portion, which is different from the predetermined angular deviation component. More specifically, a sensor which is constituted by light-emitting means for emitting a collimated light beam, and light-receiving means for receiving light emitted from the light-emitting means is adopted, or the deviation state of a specific portion, which is a portion of the movable portion and substantially does not cause the angular deviation component upon generation of the different deviation component, is detected. With this arrangement, the angular deviation state of the movable portion can be accurately detected.

Classifications:

International (IPC 8-9): G01B11/26 G02B26/08 G02B27/64

G02B5/04 G03B5/00 H04N5/232 (Advanced/Invention);

G01B11/26 G02B26/08 G02B27/64 G02B5/04

G03B5/00 (Core/Invention)

International (IPC 1-7): G01B11/26 G02B26/08 G02B27/64

G02B5/04 G03B5/00 H04N5/228 H04N5/232

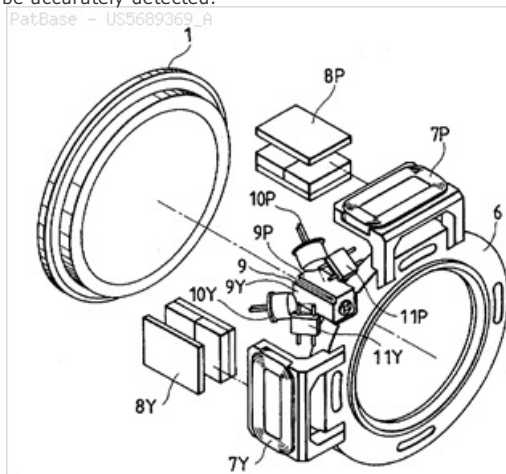
CPC: G03B2205/003 G03B2205/0069 G03B2217/005 H04N5/23283

G02B27/646 G03B5/00 H04N5/23248 H04N5/23258

European: G02B27/64V G03B5/00 H04N5/232S H04N5/232S1B

H04N5/232S2C1 S03B205/00B T04N5/232S1B T04N5/232S2C1

US: 348/208 348/208.8 348/E05.046 348/E5.046 356/141.3 359/557



Family:

Publication number	Publication date	Application number	Application date
DE69426060 D1	20001109	DE19946026060	19941223
DE69426060 T2	20010510	DE19946026060T	19941223
EP0662626 A1	19950712	EP19940309751	19941223
EP0662626 B1	20001004	EP19940309751	19941223
JP3244905 B2	20020107	JP19930334361	19931228
JP7198356 A2	19950801	JP19930334361	19931228
JP8043769 A2	19960216	JP19940192688	19940726
US5689369 A	19971118	US19960763444	19961211

Priority:

JP19930334361 19931228 JP19940192688 19940726 US19940364724 19941227

US19960763444 19961211

Probable Assignee: CANON INC

Assignee(s): (std): CANON KK

Assignee(s): CANON INC ; CANON K K ; CANON KABUSHIKI KAISHA

Inventor(s): (std): NOGUCHI KAZUHIRO ; NOGUCHI KAZUHIRO C O CANON KAB

Inventor(s): NOGUCHI KAZUHIRO C O CANON KABUSHIKI KAISHA ; NOGUCHI KAZUHIRO C O CANON KK

Designated states: DE FR GB

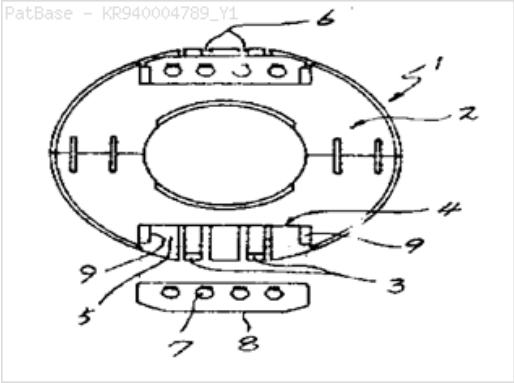
18) Family number: 16183110 (KR940004789Y)

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Title: TERMINAL-BOARD STRUCTURE OF DEFLECTION YOKE

Abstract: Source: KR940004789Y **Machine translation:** [Source: claim 1] 1. Coils Li (2) neck of separator 1 stepped portion (4) formed on one side of the groove 6 of the supporting piece (3) elastic protrusions having a resilient, and both sides of the rail (3) to form a groove (9) to the terminal pin installed easy can be easily inserted into the terminal board characterized in that the probe deflection for a TV terminal board of less Sean mounting structure for the yoke.

Classifications:
International (IPC 8-9): H01J29/70 (Advanced/Invention);
H01J29/70 (Core/Invention)
International (IPC 1-7): H01J29/70



Family:

Publication number	Publication date	Application number	Application date
KR940004789 Y1	19940721	KR19880016372U	19880930

Priority:
KR19880016372U 19880930

Probable Assignee: SAMSUNG ELECTRO MECH

Assignee(s): (std): SAMSUNG ELECTRO MECH

Assignee(s): SAMSUNG ELECTRO MECHANICS CO LTD

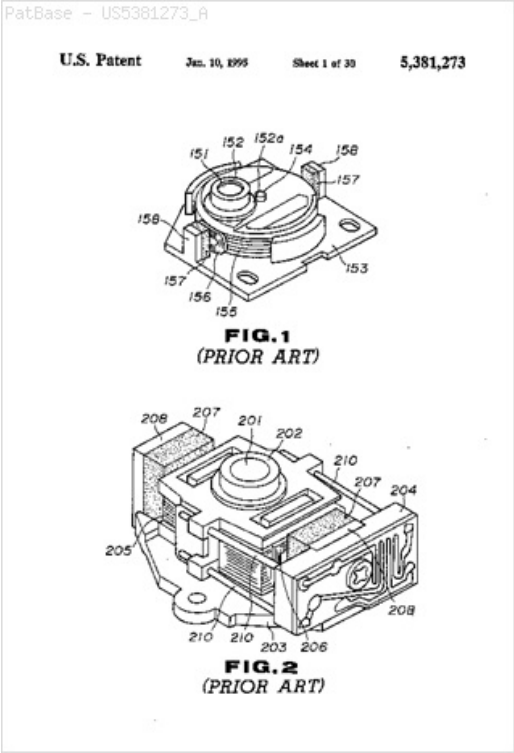
Inventor(s): (std): PARK TAE JIN

19) Family number: 29379118 (US5381273A) © PatBase

Title: OBJECT LENS HOLDER, METHOD FOR PREPARATION OF THE OBJECT LENS HOLDER AND OBJECT LENS DRIVING DEVICE EMPLOYING OBJECT LENS HOLDER

Abstract: An object lens holder for holding an object lens for converging a laser light radiated from a laser light source on a signal recording surface of an optical recording medium includes a bobbin part formed by abutting and connecting first and second bobbin halves which are counterparts to each other, a holder part formed by abutting and connecting first and second holder halves which are counterparts to each other, which holder part is used as a mounting supporting part to a supporting base plate, first and second resilient, deflecting members arranged in parallel to each other for interconnecting the first bobbin half and the first holder half, and third and fourth resilient deflecting members arranged in parallel to each other and to the first and second resilient, deflecting members for interconnecting the second bobbin half and the second holder half. This object lens holder may be assembled continuously and in larger quantities, and is a component of an object lens driving device for accurately driving and displacing the object lens in a direction along its optical axis and in a direction normal to this optical axis.

Classifications:
International (IPC 8-9): G11B7/09 G11B7/22 (Advanced/Invention);
G11B7/09 G11B7/22 (Core/Invention)
International (IPC 1-7): B21F35/00 B23P15/00 B23P21/00 B28B5/00
G02B7/02 G02B7/08 G11B7/00 G11B7/09 G11B7/22
CPC: Y10T29/4957 Y10T29/4978 Y10T29/49904 Y10T29/4998
G11B7/22 G11B7/0932 G11B7/0935 Y10T29/49609
European: G11B7/09D4 G11B7/09D6 G11B7/22
US: 264/251 29/407.1 29/469 29/527.1 29/896.2 29/896.9 298/969
359/808 359/811 359/813 359/819 359/823 359/827 369/44.15
369/44.16 G9B/007.083 G9B/007.085 G9B/007.138 G9B/7.083
G9B/7.085 G9B/7.138



Family:

Publication number	Publication date	Application number	Application date
DE69220713 D1	19970814	DE19926020713	19920423
DE69220713 T2	19980102	DE19926020713T	19920423
DE69226794 D1	19981001	DE19926026794	19920423
DE69226794 T2	19990304	DE19926026794T	19920423
EP0510652 A1	19921028	EP19920106970	19920423

EP0510652 B1	19970709	EP19920106970	19920423
EP0704842 A1	19960403	EP19950118076	19920423
EP0704842 B1	19980826	EP19950118076	19920423
JP2964698 B2	19991018	JP19910123030	19910426
JP4328336 A2	19921117	JP19910123030	19910426
US5381273 A	19950110	US19920871661	19920421
US5507082 A	19960416	US19950511240	19950804
US5511049 A	19960423	US19930141268	19931022
US5555623 A	19960917	US19940237472	19940503
US5587845 A	19961224	US19950457371	19950601

Priority:

JP19910123030 19910426 US19920871661 19920421 EP19920106970 19920423
US19930871661 19930421 US19930141268 19931022 US19940237472 19940503
US19950457371 19950601 US19950511240 19950804

Probable Assignee: SONY CORP

Assignee(s): (std): SONY CORP

Assignee(s): GODA YOSHIMASA ; SONII KK ; SONY A CORP OF JAPAN CORP

Inventor(s): (std): AIDA YOSHIMASA ; GODA YOSHIMASA ; YOSHIMASA GODA

Inventor(s): GODA YOSHIMASA SHINAGAWA KU TOKYO JP ; YOSHIMASA GODA C O SONY CORPORATION TOKYO JP ; YOSHIMASA GODA C O SONY TOKYO JP CORP

Agent(s): KOIKE AKIRA; IGA SEIJI; TAMURA EIICHI

Designated states: DE FR GB

20) Family number: 61183131 (US2017324313A)

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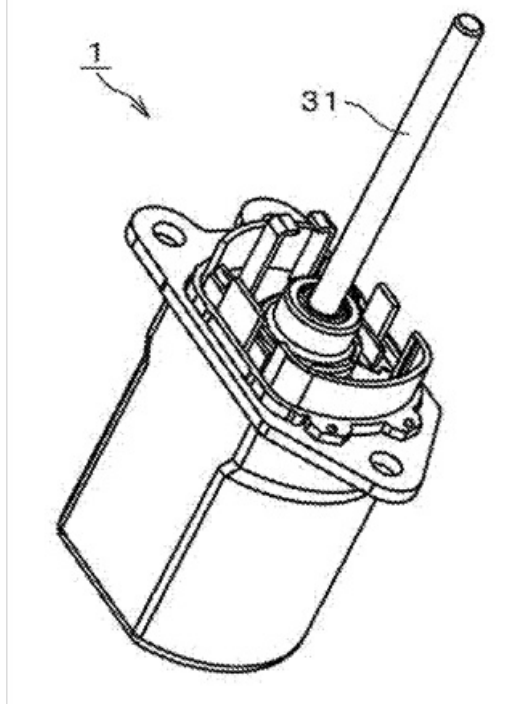
Title: MOTOR

Abstract: Provided is a motor having a rotary unit includes a shaft extending along the center axis, an armature core attached to the shaft and having six teeth radially extending toward a radial direction, a coil group of 6·n (however, n is 1 or 2) concentrated winding coils installed at the six teeth, using a coil by concentratedly winding a lead wire around one teeth as a concentrated winding coil, and a commutator electrically connected to the coil group. The stationary unit includes a pair of field magnets having same polarity facing each other, having the armature core disposed therebetween and a housing having a cylindrical yoke accommodating the pair of field magnets, wherein in the yoke, a pair of portions facing each other between the pair of magnets in a circumferential direction is a pair of magnetic poles directly facing the teeth of the armature core while having an opposite polarity to that of the magnetic poles, and a brush group contacting the commutator.

Classifications:

International (IPC 8-9): H02K23/00 H02K23/04 H02K23/26
H02K23/46 H02K5/04 (Advanced/Invention);
H02K13/00 H02K15/00 H02K3/28 (Advanced/Non-invention)
CPC: H02K23/04 H02K15/00 H02K3/28 H02K13/006 H02K23/26

PatBase - US2017324313_AA



Family:

Publication number	Publication date	Application number	Application date
CN106464112 A	20170222	CN201580032817	20150313
CN106464112 B	20190326	CN201580032817	20150313
DE112015002853 T5	20170302	DE201511002853T	20150313
JP2015194216 A1	20170706	JP20160529110T	20150313
US2017324313 AA	20171109	US20150319485	20150313
WO15194216 A1	20151223	WO2015JP57527	20150313

Priority:

JP20140126243 20140619 WO2015JP57527 20150313

Probable Assignee: NIDEC CORP

Assignee(s): (std): NIDEC CORP

Inventor(s): (std): TANAKA KUNIAKI ; HASHIZUME NAOHIRO ; TAKAHASHI SHUNSUKE ; SAITO KEISUKE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

21) Family number: 22452136 (US2020419A)

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Title: APPARATUS FOR SUPPLYING WEB-MATERIAL

Abstract: 1. In combination, a support for a web of 1118- terlal, mechanism for operating upon the web, a compartment through which the web passes from ' the support to the operating mechanism, net- 'll feeding means situated at one extremity of the compartment, and a guide for the web extending from above the feeding means along the top of the compartment and terminating near the center thereof.

Classifications:

International (IPC 8-9): B05C1/08 B21D28/36 B31B7/00 B65H16/06 B65H19/18 B65H20/24 (Advanced/Invention); B05C1/08 B21D28/36 B31B7/00 B65H16/00 B65H20/00 (Core/Invention)

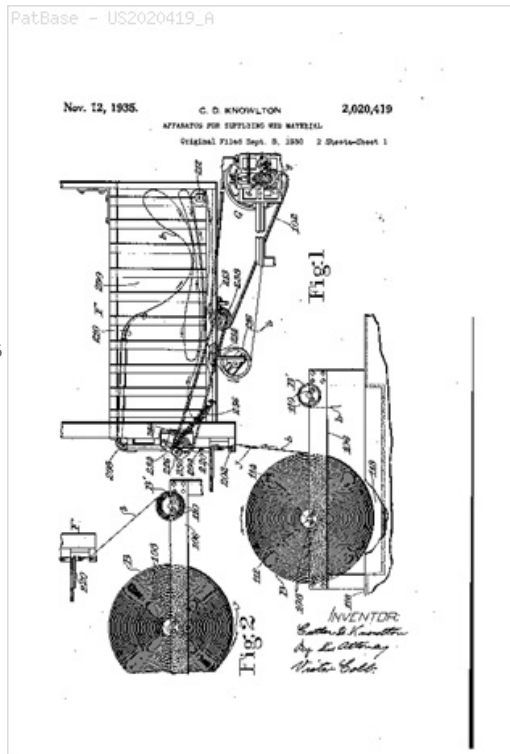
International (IPC 1-7): B23D19/06 B31B1/18 B31B1/60 B65H17/42 B65H19/02 B65H19/10 D06N3/00

CPC: B65H19/1868 B65H2301/46172 B65H2301/46414 B65H16/06 B05C1/0834 B65H20/24 Y10T83/2094 B21D28/36 Y10T83/212 Y10T83/22 Y10T83/2209 Y10T83/783 B65H2301/4633 B31B50/00 B31B2105/001

European: B05C1/08P2 B21D28/36 B31B7/00 B65H16/06 B65H19/18F4 B65H20/24 L31B217/00D L65H301/46172 L65H301/4633 L65H301/46414 L65H346/330

US: 118/220 118/234 118/262 156/157 156/504 226/118.4 242/534.1 242/555.1 242/592 242/598.3 493/334 493/337 493/342 493/343 493/345 493/352 493/362 493/365 493/370 493/401 493/96 83/110 83/122 83/158 83/162 83/500

PatBase - US2020419_A



Family:

Publication number	Publication date	Application number	Application date
US1963369 A	19340619	US19320601831	19320329
US1969849 A	19340814	US19320696603	19320421
US1972194 A	19340904	US19320601830	19320329
US1988451 A	19350122	US19300480518	19300908
US2013056 A	19350903	US19320606605	19320421
US2020419 A	19351112	US19320606604	19320421

Priority:

US19300480518 19300908 US19320601830 19320329 US19320601831 19320329
US19320696603 19320421 US19320606605 19320421 US19320606604 19320421

Probable Assignee: HOAGUE SPRAGUE CORP

Assignee(s): (std): HOAGUE SPRAGUE CORP

Inventor(s): (std): KNOWLTON CUTLER D ; KNOWITON CUTLER D

22) Family number: 58447142 (US2015035636A)

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Title: RESIN-MOLD CORE AND REACTOR USING THE SAME

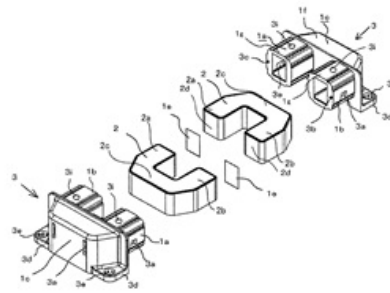
Abstract: A resin-mold core includes right and left leg portions, and a yoke portion interconnecting those. The resin-mold core includes a magnetic core, and a mold component having the magnetic core embedded therein by molding. Openings where the magnetic core in the mold component is exposed are formed in multiple faces of the mold component that are upper, lower, front, rear, and right and left faces. Apart of the yoke portion of the resin-mold core corresponding to a location where terminals are drawn to the exterior of the core from coils attached to the outer circumferences of the leg portions of the core has no opening formed in the multiple faces of the mold component. Positioning members to coaxially align the leg portions of the opposing resin-mold core are formed in abutting faces of the leg portions of the resin-mold core.

Classifications:

International (IPC 8-9): H01F27/24 H01F27/26 H01F27/28 H01F27/29 H01F27/30 H01F3/00 H01F37/00 (Advanced/Invention); H01F41/02 (Advanced/Non-invention)

CPC: H01F27/29 H01F27/306 H01F37/00 H01F27/24 H01F27/2823 H01F41/0246 H01F27/263

US: 1/1 335/297 336/192

**Family:**

Publication number	Publication date	Application number	Application date
JP2015032718 A2	20150216	JP20130161927	20130804
JP5997111 B2	20160928	JP20130161927	20130804
US2015035636 AA	20150205	US20140448749	20140731
US2016233015 AA	20160811	US20160131890	20160418
US9343221 BB	20160517	US20140448749	20140731
US9978498 BB	20180522	US20160131890	20160418

Priority:

JP20130161927 20130804 US20140448749 20140731 US20160131890 20160418

Probable Assignee: TAMURA CORP

Assignee(s): (std): TAMURA SEISAKUSHO KK

Assignee(s): TAMURA CORP ; TAMURA SEISAKUSHO CO LTD

Inventor(s): (std): NINOMIYA TOSHIKAZU ; NAKATSU RYO ; MAENO KENSUKE ; NINOMIYA YUKIKAZU

23) Family number: 21798143 (FR1538822A)

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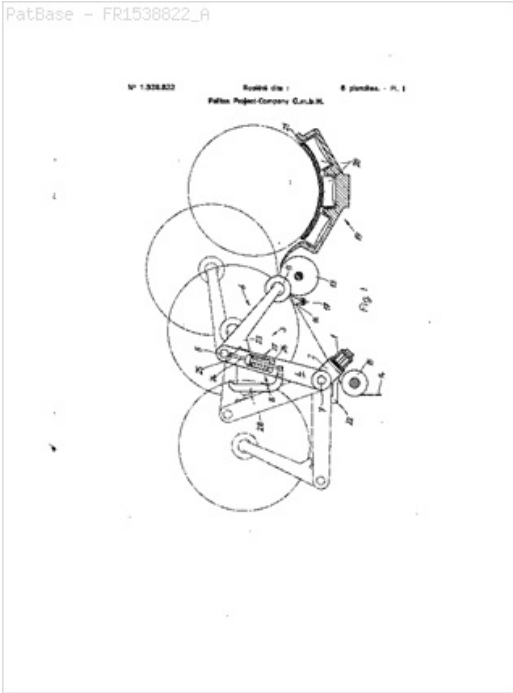
Title: RATELIER DE BOBINES APPLICABLE A DES RETORDOIRS A MOUVEMENT ASCENDANT RATELIER COIL APPLICABLE TO MOVEMENT twisters RISING (Machine translation)

Abstract: Source: FR1538822A [FR] [Source: Claim 1] **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. machine en dessous de l'axe de pivotement 7 du ratelier, entre les cylindres de friction 13 de chaque cote de la machine, et qui revient sur le rouleau de transport droit 50 en dessous du dispositif de transport 19 proprement dit. Cette figure, en particulier, montre la maniere dont le depot des bobines de renvidage pleines 18 et leur transport a l'extremite de la machine sont facilites. Les bobines de renvidage 18 de grand poids et de grandes dimensions n'ont plus besoin d'etre soulevees individuellement par l'operateur, ce qui exigerait une depense d'energie considerable. Au contraire, l'operateur n'a plus qu'a accomplir deux mouvements faciles, avec le levier a main, non represente a la figure 7, fixe au ratelier de bobines, pour déposer la bobine de renvidage 18 avec surete sur le dispositif de transport 19 installe au milieu de la distance entre les rateliers de bobines 3 des deux cotes de la machine, le dispositif 19 transportant automatiquement la bobine de renvidage 18 a l'extremite de la machine. Ensuite, une douille de bobine vide peut etre placee entre les organes de reception et peut etre maintenue au moyen du levier a main entre les deux bras de support de l'etrier pour empêcher un glissement et un degagement automatique indesirable. RESUME Ratelier de bobines applicable a des retordoirs a mouvement ascendant, qui recoit entre ses bras de support la bobine de renvidage maintenue axialement, remarquable notamment par les caracteristiques suivantes, considerees separement ou en combinaisons 10 Le ratelier de bobines 3 peut etre coude autour d'une articulation intermediaire 5 pouvant etre immobilisee dans une position angulaire determinee, disposee sur une partie de la longueur entre l'axe de pivotement 7 du ratelier et les organes 10, 1 1 recevant les bobines, en vue du prolongement du rayon de pivotement du ratelier 3 determine par la distance a son axe de pivotement 7 et aux organes de reception 10, 1 1 des bobines, pour le depot de la bobine de renvidage 18 sur une bande transporteuse sans fin 21, s'etendant longitudinalement a la machine. 20 Le ratelier est constitue par un etrier de support 6 en U entourant la bobine de renvidage 18 et un bras de prolongement 4 articule, d'une part, a la branche de base de l'etrier de support 6 au moyen de l'articulation intermediaire 5 et, d'autre part, a l'axe de pivotement 7 du ratelier. 30 Le long du bras de prolongement 4 ou de l'etrier de support 6 s'etend un levier a main 28, 29 pouvant pivoter ou coulisser contre l'action d'un ressort 27, 31 qui attaque par son extremite opposee a la poignee 32 un systeme d'arret 24, 25, 33 de l'articulation intermediaire 5 et degage ce systeme par coulissement longitudinal. 40 L'articulation intermediaire 5 est un angle d'une articulation a quatre elements attaquant le bras de prolongement 4 et l'etrier de support 6, qui peut etre immobilisee dans la position de pivotement du ratelier de bobines 3 autour de son axe de pivotement 7 et qui fait pivoter, en vue d'etendre le ratelier, l'etrier de support 6 sur le bras de prolongement 4. 50 Un levier a main 39, pouvant etre immobilise dans une position de pivotement avec le bras de prolongement 4, attaque un element 37 de l'articulation a quatre elements. 60 L'extremite posterieure 9c d'au moins un bras de support 9b, pouvant etre ecarte de la bobine de renvidage 18 dans sa direction axiale en vue de son degagement et pouvant pivoter autour d'une articulation 34 de l'etrier de support 6, attaque par un guide un plan incline 47 du bras de prolongement 4 et, pendant le pivotement de l'etrier de support 6 sur le bras de prolongement 4, elle est pivotee par le plan incline 47 autour de l'articulation 34 dans la direction de la bobine de renvidage 18. 70 Le ratelier est monte sur un metier comportant des broches disposees de part et d'autre du plan median du metier; une bande de transport sans fin 21, commune aux deux cotes du metier, est disposee dans le plan median de la machine.

Machine translation: [Source: Claim 1] ** WARNING ** start of CLMS field may contain end of DESC **. machine below the pivot axis 7 of the rack, between the pinch rolls 13 on each side of the machine, and returns to the conveying roller 50 right below the conveyor 19 itself. This figure, in particular, shows the way in which the deposit full winding bobbins 18 and transporting them at the tip of the machine are facilitated. The winding coils 18 of large weight and large do not need to be raised individually have by the operator, which would require a considerable expenditure of energy. Instead, the operator no longer has to accomplish two easy movements with the hand lever, not represented in Figure 7, the fixed coil rack, to post the winding reel 18 with tart on the device Transport 19 installs in the middle of the distance between the coils 3 racks on both sides of the machine, the device automatically 19 carrying the winding reel 18 at the tip of the machine. Then an empty spool sleeve can be placed between the receiving members and can be maintained by means of a hand lever between the caliper support arm to prevent slippage and unwanted automatic clearance. SUMMARY Ratelier applicable coils has twisters has upward movement, which receives between its support arm of the coil winding held axially, remarkable in particular for the following characteristics, considered individually or in combinations 10 The bobbin creel 3 may be bent around an intermediate hinge 5 can be fixed in a given angular position, disposed over a portion of the length between the pivot axis 7 of the rack and the bodies 10, 1 1 receiving coils, for the extension of the pivot radius of the rack 3 determined by the distance has its pivot axis 7 and the receiving members 10, 1 1 coils, for the filing of the winding reel 18 of a tape endless conveyor 21 extending longitudinally in the machine. The rack 20 is constituted by a U bracket caliper 6 by surrounding the

winding spool 18 and an extension arm 4 articulated, on the one hand, the base leg of the caliper support 6 by means of the intermediate joint 5 and, on the other hand, the pivot axis 7 of the rack. The 30 along the extended arm 4 or the caliper support 6 extends a hand lever 28, 29 that can pivot or slide against the action of a spring 27, 31 that attacks by its opposite end the handle 32 has a stop system 24, 25, 33 of the intermediate articulation 5 and clears the system by longitudinal sliding. 40 The intermediate joint 5 is a joint angle of a four-element attacking the extension arm 4 and the caliper bracket 6 which can be fixed in the pivot position of the bobbin creel 3 about its pivot axis 7 and which rotates in order to enlarge the rack, the yoke 6 of the extension arm 4. 50 A hand lever 39, which can be fixed in a pivot position with the extension arm 4, a drive element 37 of the joint has four elements. 60 The posterior extremity 9c of at least one support arm 9b, being movable away from the winding coil 18 in its axial direction to its release and pivotable about a hinge 34 of the caliper support 6, a guide attack by an inclined plane 47 of the extension arm 4 and, during pivoting of the caliper support 6 on the extension arm 4 is pivoted by the inclined plane 47 about the articulation 34 in the direction of the winding reel 18. 70 The rack is mounted on a trade involving ARRANGED pins on both sides of the median plane in the art; an endless conveyor belt 21, common to both sides of the profession, is arranged in the median plane of the machine.

Classifications:
International (IPC 8-9): B65H54/553 (Advanced/Invention);
B65H54/40 (Core/Invention)
International (IPC 1-7): B65H54/54 D01H9/00
CPC: B65H54/553 B65H2701/31
European: B65H54/553 L65H701/31



Family:

Publication number	Publication date	Application number	Application date
FR1538822 A	19680906	FR19670120679	19670912

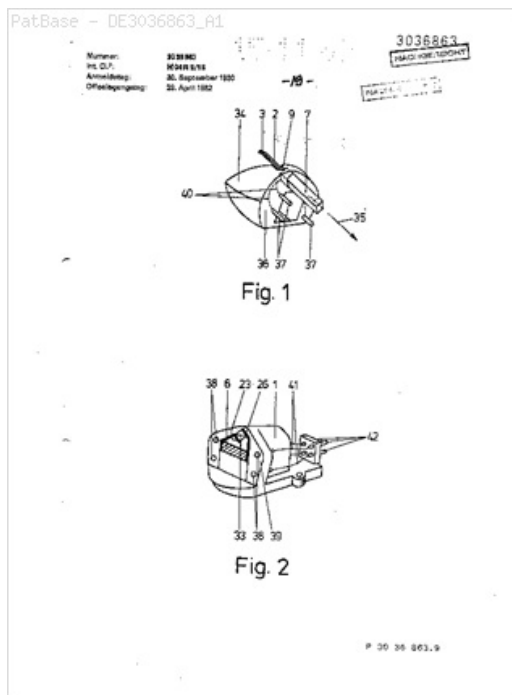
Priority:
FR19670120679 19670912
Probable Assignee: PALITEX PROJECT CO GMBH
Assignee(s): (std): PALITEX PROJECT CO GMBH
Assignee(s): PALITEX PROJECT COMPANY G M B H

24) Family number: 2021152 (DE3036863A1) © PatBase

Title: DYNAMIC PICK=UP ASSEMBLY - HAS INDUCTION COILS JOINED TO NEEDLE CARRIER AND FIXED IN PERMANENT MAGNET YOKE

Abstract: The sound pick-up consists essentially of a housing, a rod-shaped needle carrier (2) to which a stylus (3) is fixed, a needle carrier bearing support (4), induction coils (5) and a permanent magnet. The needle carrier bearing (4) is situated in the centre of a tube shaped needle carrier holder (7) and supports the needle carrier (2) so that in the rest position, the latter is central and coaxial in the holder (7). The free end (8) of the needle carrier (2) stands out from the needle end (9) of the holder (7) and the inner end of the carrier (2) sticks through the needle carrier bearing (4). The induction coils lie behind one another on the axis and are constructed as cylindrical coils, pushed onto the needle carrier (2), each having a magnetic yoke. As the coils are arranged behind one another, the coil/needle carrier component can be made very slim but producing a higher output voltage.

Classifications:
International (IPC 8-9): H04R1/18 H04R9/16 (Advanced/Invention);
H04R1/00 H04R9/00 (Core/Invention)
International (IPC 1-7): H04R9/16
CPC: H04R1/18 H04R9/16
European: H04R1/18 H04R9/16



Family:

Publication number	Publication date	Application number	Application date
DE3036863 A1	19820429	DE19803036863	19800930
DE3036863 C2	19840202	DE19803036863	19800930

Priority:

DE19803036863 19800930

Probable Assignee: CLEARAUDIO ELECTRONIC GMBH

Assignee(s): (std): CLEARAUDIO ELECTRONIC GMBH ; SUCHY PETER DIPL ING

Assignee(s): SUCHY PETER DIPL ING 8520 ERLANGEN DE

Inventor(s): (std): SUCHY PETER DIPL ING

Inventor(s): SUCHY PETER DIPL ING 8520 ERLANGEN DE

25) Family number: 63200153 (US2018041087A)

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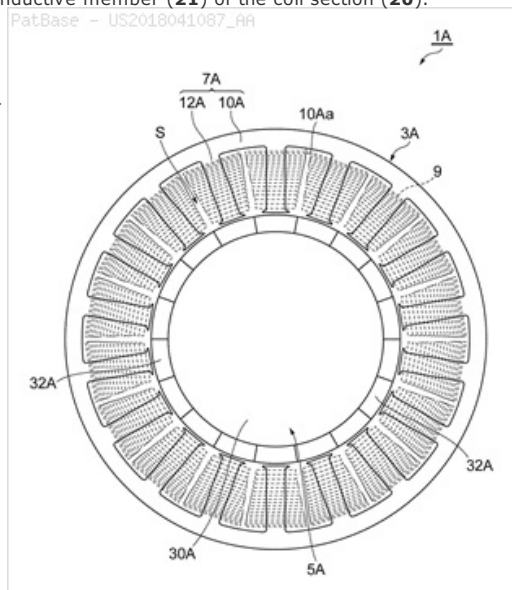
Title: ROTATING ELECTRIC MACHINE, COIL, AND COIL DEVICE

Abstract: Provided are a rotating electric machine, and a coil and coil device used in the rotating electric machine capable of improving performance. The rotating electric machine (1) includes: a stator (3) having an iron core section (7) having a main body part (10) having a circular profile and a plurality of cores (12) that protrude from a circumferential surface (10a) of the main body part (10) and are provided at predetermined intervals in a circumferential direction of the circumferential surface (10a), and coils (9) arranged on the cores (12); and a rotor (5) provided to be freely rotatable. Each of the coils (9) includes a coil section (20) formed in a spiral shape from a conductive member (21) having conductivity and terminal parts (22a, 22b) connected to opposite ends of the coil section (20). A width dimension of the coil section (20) gradually increases from one side to the other side in a direction of an axis (L) of the coil section (20), and an insulating film (24) having an electrical insulation property is provided on a surface (21a) of the conductive member (21) of the coil section (20).

Classifications:

International (IPC 8-9): H01F5/00 H02K1/14 H02K1/27 H02K15/04 H02K21/16 H02K3/04 H02K3/18 H02K3/30 H02K3/34 (Advanced/Invention); H02K1/14 H02K1/27 H02K21/16 H02K29/03 H02K3/34 (Advanced/Non-invention)

CPC: H02K3/34 H02K1/146 H02K1/2753 H02K21/16 H02K29/03 H02K3/18 H02K2213/03 H02K15/045



Family:

Publication number	Publication date	Application number	Application date
CN107210636 A	20170926	CN201680009288	20160205
EP3258574 A1	20171220	EP20160749169	20160205
EP3258574 A4	20180912	EP20160749169	20160205
JP2016149930 A2	20160818	JP20160020470	20160205
TW201637327 A	20161016	TW20160104219	20160215
US2018041087 AA	20180208	US20160549592	20160205
WO16129525 A1	20160818	WO2016JP53529	20160205

Priority:

JP20150023554 20150209 JP20160020470 20160205 WO2016JP53529 20160205

Probable Assignee: NATIONAL INST OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY

Assignee(s): (std): AIST ; NAT INST ADVANCED IND SCIENCE AND ; NAT INST ADVANCED IND SCIENCE AND TECH ; NAT INST OF ADVANCED IND SCIENCE AND TECH ; SHIZUOKA INST OF SCIENCE AND TECH ; NATIONAL INST OF ADVANCED INDUSTRIAL SCIENCE AND TECH ; SUMITOMO SEIKA CHEMICALS CO LTD ; NAT INST OF ADVANCED IND SCIEN ; SUMITOMO SEIKA CHEMICALS

Assignee(s): NATIONAL INST OF ADVANCED INDUSTRIAL SCIENCEAND TECHNOLOGY ; SUMITOMO SEIKA CHEMICALS CO ; SUMITOMO SEIKA CHEM CO LTD ; SHIZUOKA INSTITUTE OF SCIENCE AND TECHNOLOGY ; SHIZUOKA INST OF SCIENCE AND TECHNOLOGY ; NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY ; NATIONAL INST OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY ; N A

Inventor(s): (std): EBINA TAKEO ; HATTORI SATOMI ; ISHIDA TAKAHIRO ; HAYASHIZAKA NORIYUKI ; HATTORI TOMOMI ; HAYASHISAKA TOKUYUKI ; MISHOU DAISUKE ; KENSHO DAISUKE

Agent(s): NEDERLANDSCH OCTROOIBUREAU; HASEGAWA YOSHIKI ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

26) Family number: 33152156 (US2006165397A)

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Title: IMAGE BLUR COMPENSATION APPARATUS

Abstract: An image blur compensation apparatus includes first and second driving units (17 a, 17 b, 16 a, 16 b) having functionally equivalent members each other. A resultant force which acts on a holding unit (12) when in-phase driving signals of the same amount are applied to the first and second driving units differs in magnitude from a resultant force which acts on the holding unit when reverse-phase driving signals of the same amount are applied to the first and second driving units. The first and second driving units are arranged such that these resultant forces become perpendicular to each other.

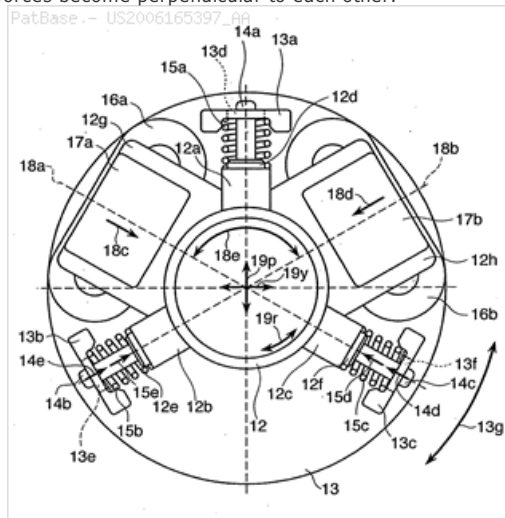
Classifications:

International (IPC 8-9): G03B17/00 G03B5/00 (Advanced/Invention); G03B17/00 G03B5/00 (Core/Invention)

CPC: G03B17/02 G03B2217/005 H04N5/23248 H04N5/23287

European: G03B17/02 H04N5/232S H04N5/232S2C2 S03B217/00B T04N5/232S2C2

US: 348/E05.046 348/E5.046 348/E50.46S 359/554 396/55 396/55P



Family:

Publication number	Publication date	Application number	Application date
JP2006208413 A2	20060810	JP20050016267	20050125
JP4659465 B2	20110330	JP20050016267	20050125
US2006165397 AA	20060727	US20060340355	20060125
US7440688 BB	20081021	US20060340355	20060125

Priority:

JP20050016267 20050125

Probable Assignee: CANON INC

Assignee(s): (std): CANON KK ; UEHARA TAKUMI ; WASHISU KOICHI

Assignee(s): CANON INC ; CANON KABUSHIKI KAISHA

Inventor(s): (std): UEHARA TAKUMI ; WASHISU KOICHI

Agent(s): MORGAN AND FINNEGAN LLP

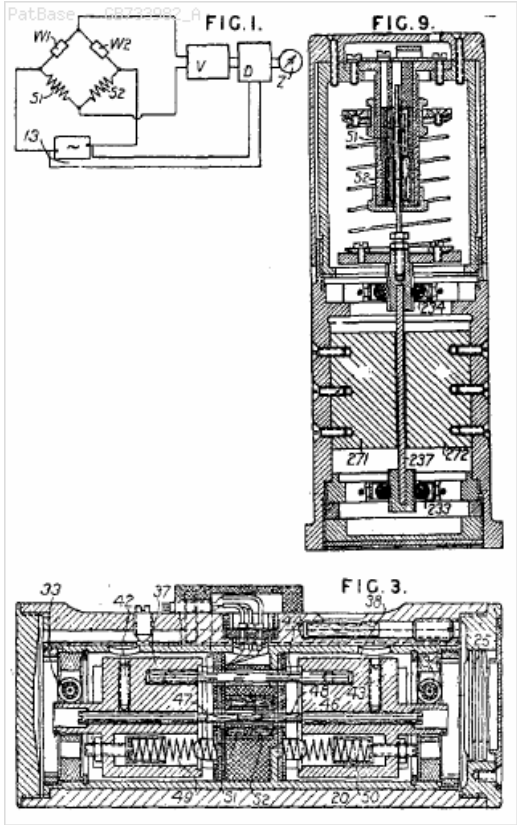
27) Family number: 19816161 (GB733982A)

© PatBase

Title: Measuring vibration electrically.

Abstract: 733,982. Measuring vibration electrically. DAIMLER-BENZ AKT.-GES. Oct. 20, 1953 [Oct. 20, 1952], No. 28955/53. Class 40 (1). Apparatus for measuring the vibratory oscillations of e.g. a motor vehicle, wherein an inertia mass is attached to a core movable in two coils connected in an A.C. bridge circuit so that relative oscillatory movement between the inertia mass and the coils produces a corresponding unbalance signal containing the supply frequency modulated by the oscillatory frequency is characterized in that the inertia mass is mounted on anti-friction bearings, and is held in position under spring pressure, whereby measurements of low-frequency vibrations are possible. The bridge circuit (Fig. 1) comprises two normally balanced coils S1, S2, and two equal impedances W1, W2 fed from an L.F. oscillator 13, the unbalance current, after amplification at V and demodulation at D, being indicated on a damped meter Z, or on a cathode-ray oscillograph. Construction.-The coils S1, S2 (Fig. 3) are located centrally inside a substantially cylindrical housing 20 between two inertia masses 37, 38 capable of lateral movement on roller bearings 33, 34 and held by springs 49, 50 against spacing rods 44. Attached to the inertia masses 37, 38 is a composite rod having a central brass part 46 located symmetrically with respect to the coils S1, S2 and adjacent soft iron parts 47, 48, the rod being rigidly attached to the inertia masses by grub-screws 42, 43. The housing 20 is filled with a damping liquid e.g. oil, and has a bellows device 25 at one end to allow for expansion and contraction of the liquid with temperature variation. In one modification the assembly is mounted vertically for measuring vertical oscillations, and has only one inertia mass. In another modification (Fig. 9) the inertia mass comprises a flat metal plate 237 oscillating on roller bearings 233, 234, between the poles 271, 272 of a permanent magnet, thereby producing the desired damping by eddy current production.

Classifications:
International (IPC 1-7): G01H1/00



Family:

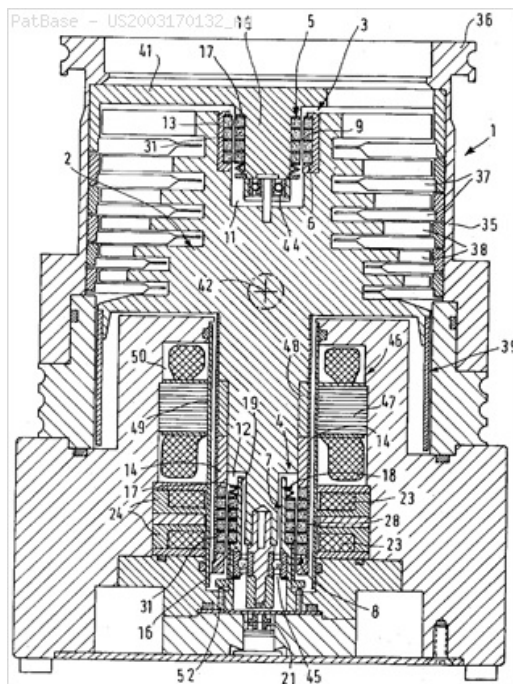
Publication number	Publication date	Application number	Application date
GB733982 A	00000000		00000000

28) Family number: 30022168 (US2003170132A) © PatBase

Title: MACHINE, PREFERABLY A VACUUM PUMP, WITH MAGNETIC BEARINGS

Abstract: The invention relates to a machine (1), comprising a stator and a rotor (2) which is mounted with radially stable and axially unstable magnetic bearings (3, 4). Said magnetic bearings (3, 4) each consist of concentrically arranged magnetic ring sets (5, 6; 7, 8) in which the stationary magnetic ring set (5 or 7) is situated inside and the rotating magnetic ring set (6 or 8) is situated outside. The machine also comprises means (21, 23, 24, 27) for regulating the axial position of the rotor (2). The aim of the invention is to simplify a machine of this type. To this end, one (4) of the two magnetic bearings (3, 4) is itself equipped with the axial regulation means and at least one coil (23) controlled by a position sensor (21) and pole components (24) surround the outer magnetic ring set (8) of the axially regulated bearing (4).

Classifications:
International (IPC 8-9): F04D19/04 F04D29/056 F04D29/058 F16C32/04 F16C39/06 H02K7/09 (Advanced/Invention); F04D19/00 F04D29/05 F16C32/04 F16C39/00 (Core/Invention)
International (IPC 1-7): F04B17/00 F04D19/04 F04D29/04 F16C32/04 H02K7/09
CPC: F16C2360/45 F16C32/0476 F04D19/042 F04D29/058 F16C32/0425 F16C32/047 F16C39/063
European: F04D19/04B F04D29/058 F16C32/04M2R2 F16C32/04M4H F16C32/04M4R1 F16C39/06A
US: 417/423.12 417/423.120S 417/423.4 417/423.400P



Family:

Publication number	Publication date	Application number	Application date
DE10022062 A1	20011108	DE20001022062	20000506
DE50101200 D1	20040129	DE20015001200	20010421
EP1281007 A1	20030205	EP20010929592	20010421
EP1281007 B1	20031217	EP20010929592	20010421
JP2005504930 T2	20050217	JP20010582731T	20010421
KR20040029945 A	20040408	KR20027014820	20010421
TW521477 B	20030221	TW20010110597	20010503
US2003170132 AA	20030911	US20030275458	20030509
WO0186158 A1	20011115	WO2001EP04531	20010421

Priority:

DE20001022062 20000506 DE20015001200 20010421 WO2001EP04531 20010421

Probable Assignee: LEYBOLD VAKUUM GMBH

Assignee(s): (std): ENGLAENDER HEINRICH ; HODAPP JOSEF ; LEYBOLD VAKUUM GMBH

Assignee(s): ENGLANDER HEINRICH

Inventor(s): (std): ENGLANDER HEINRICH ; HODAPP JOSEF ; HODAPP JOSEF PROF DR ; ENGLAENDER HEINRICH

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT JP KR LI LU MC NL PT SE TR US

29) Family number: 63200169 (US2018026502A)

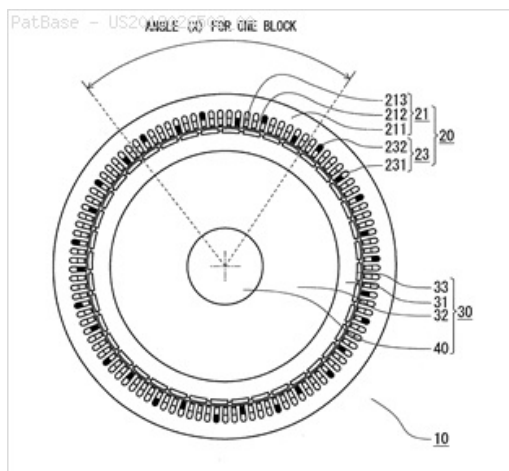
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Title: ROTATING ELECTRIC MACHINE, ELEVATOR HOIST, AND METHOD FOR MAGNETIZING AND DEMAGNETIZING PERMANENT MAGNET OF ROTATING ELECTRIC MACHINE

Abstract: A rotating electric machine includes: a stator having an armature core having slots formed between magnetic pole teeth, and a plurality of coils each of which is wound so as to straddle a plurality of the magnetic pole teeth; and a rotor including a plurality of permanent magnets disposed at certain intervals on an outer peripheral surface of the magnetic yoke, and the coils include an armature coil for driving the rotating electric machine and a non-armature coil for magnetizing or demagnetizing the permanent magnets of the rotor.

Classifications:

International (IPC 8-9): B66B11/04 B66B11/08 H02K1/16 H02K11/20 H02K15/03 H02K21/14 H02K3/28 H02K3/48 H02K5/173 (Advanced/Invention)
CPC: B66B11/043 H02K1/16 H02K11/20 H02K21/14 H02K3/48 H02K21/145 H02K5/1732 H02K3/28 H02K15/03 H02K3/493 H02K11/225



Family:

Publication number	Publication date	Application number	Application date
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CN107251382 A	20171013	CN201680009415	20160118
CN107251382 B	20190514	CN201680009415	20160118
DE112016000682 T5	20171102	DE201611000682T	20160118
JP2016129330 A1	20170914	JP20160574700T	20160118
JP6305577 B1	20180404	JP20160574700T	20160118
KR20170092617 A	20170811	KR20177017908	20160118
US2018026502 AA	20180125	US20160547966	20160118
WO16129330 A1	20160818	WO2016JP51288	20160118

Priority:

JP20150023803 20150210 WO2016JP51288 20160118

Probable Assignee: MITSUBISHI ELECTRIC CORP

Assignee(s): (std): MITSUBISHI ELECTRIC CORP

Inventor(s): (std): HASHIMOTO AKIRA ; KAWASAKI SACHIKO ; TSUIKI HIRONORI ; UMEDA TAKASHI

Agent(s): MURAKAMI KEIGO ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

30) Family number: 22327169 (US2530157A)

© PatBase

Title: ELECTRIC PROPORTIONING CONTROLLER WITH LIQUID-OPERATED FOLLOW-UP

Abstract: (Claim 1) 1. A controller for positioning a Bnal control element in response to changes in a control variable as sensed by a measuring element, said controller including, an electric motor connected to a source of electricity, an oscillatory circuit having control of said motor so as to energize said motor for movement in one direction or the other upon a change of state of oscillation of said circuit. a Pair of oscillating coils _mounted for mechanical movement and connected into said oscillatory circuit, a shielding vane mounted for movement relative to said oscillating coils so as to _vary the state of oscillation in said coils, a mechanical connection between said vane and the measuring element so that said vane is moved proportionally to the changes ci' the control variable, and a closed liquid-operated system including a liquid pump operated by said electric motor, a first liquid-operatedbellows movable in response to the pressure from said pump, a second liquid-operated bellows movable in the opposite direction to said first bellows in response to liq- uid pressure from said pump, a spring blasins said first and second bellows in the direction of movement of said second bellows, a restricted conduit for liquid between said pump and said second bellows, a. manually operable valve controlling the amount of said restriction. a variable speed mechanism forming the driving connection from the said nrst and said second bellows for mechanically moving said oscillating coils, a handle for manually varying the ratio between the input speed and the output speed of said driving connection, a third bellows for varying the lilluld pressure in said liquid system, and a handle for actuating said third bellows.

Classifications:

International (IPC 8-9): G05D23/275 (Advanced/Invention);

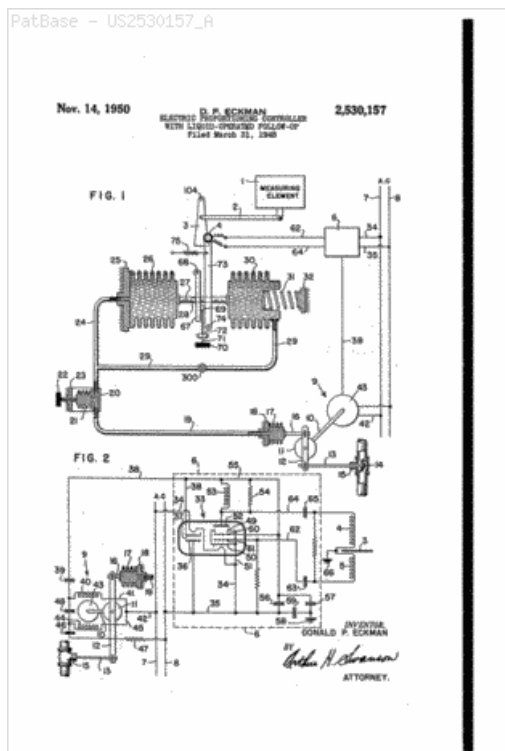
G05D23/275 (Core/Invention)

International (IPC 1-7): G05D3/00

CPC: Y10T137/2452 G05D23/275 G05D23/1906

European: G05D23/275C

US: 137/86 236/74R 236/78D 236/78R 307/650 318/675 327/185 327/261 327/518 361/178 361/180



Family:

Publication number	Publication date	Application number	Application date
US2530157 A	19501114	US19480018144	19480331

Priority:

US19480018144 19480331

Probable Assignee: HONEYWELL REGULATOR CO

Assignee(s): (std): HONEYWELL REGULATOR CO

Assignee(s): MINNEAPOLIS HONEYWELL REGULATOR CO ; MINNEAPOLIS HONEYWELL REGULATOR COMPANY

Inventor(s): (std): ECKMAN DONALD P

Title: GRADING MACHINE

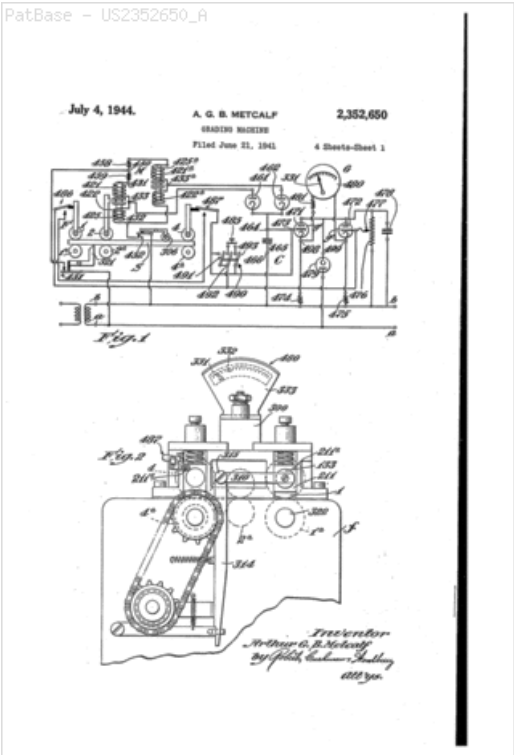
Abstract: 1. A grading machine comprising measuring means for detecting changes of thickness of articles moving relatively thereto in terms of variations of an electrical value, means for progressively storing electric energy proportionate to unidirectional changes of said value, means for grading said articles adapted to be adjusted in accordance with said changes, electrical transmission means including an element susceptible to said stored energy. for adjusting said grading means proportionate to said changes, and means for rendering said transmission means effective dependent upon the location of said article relatively to said detecting means.

Classifications:

CPC: A43D8/10 A43D8/34 A43D8/48 A43D115/00

European: 42B27P1 A43D115/00 A43D8/10 A43D8/34 A43D8/48

US: 33/501.01



Family:

Publication number	Publication date	Application number	Application date
US2352650 A	19440704	US19410399088	19410621

Priority:

US19410399088 19410621

Probable Assignee:

NORTH AMERICAN HOLDING CORP

Assignee(s): (std):

NORTH AMERICAN HOLDING CORP

Inventor(s): (std):

METCALF ARTHUR G B

Title: ARMATURE IN ROTATING ELECTRIC MACHINE AND MANUFACTURING METHOD THEREOF

Abstract: In a rotary electric machine, coils to be wound around an armature are wound so as to have a good magnetic balance. In a rotary electric machine formed with four poles, ten slots 6 c, and twenty commutator segments 7 b, a pair of coils 10 that respectively conduct an electric current to commutator segments 7 b adjoining at both sides in the circumferential direction with reference to an arbitrary commutator segment 7 b are caused to face permanent magnets 3, that are adjoining poles, to be poles opposite from each other, and one coil 10 is wound in a normal winding state, and the other coil 10, in a reverse winding state.

Classifications:

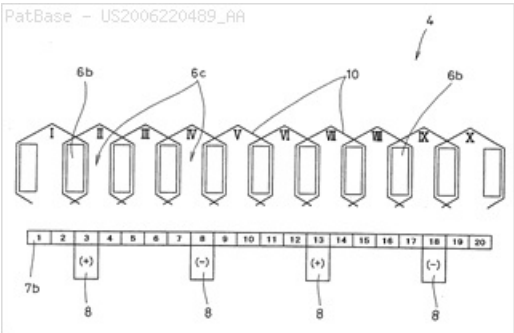
International (IPC 8-9): H01R39/32 H02K1/00 H02K13/00 H02K13/04 H02K15/09 H02K23/26 H02K23/28 H02K3/00 H02K3/28 H02M3/28 (Advanced/Invention); H02K3/28 (Advanced/Non-invention); H01R39/00 H02K1/00 H02K23/26 H02K3/00 H02M3/24 (Core/Invention)

International (IPC 1-7): H02M3/28

CPC: Y10T29/49009 Y10T29/49073 H02K23/28 H02K3/28 H01R39/04 H02K3/12 H02K13/006

European: H02K23/28

US: 29/596 29/606 310/179 310/198 310/234



Family:

Publication number	Publication date	Application number	Application date
CN1864318 A	20061115	CN200480029446	20041007

CN1864318 B	20130424	CN200480029446	20041007
DE112004001908 T5	20060817	DE200411001908	20041007
JP2005036724 A1	20061228	JP20050514652T	20041007
JP4726627 B1	20110720	JP20050514652T	20041007
JP4726627 B2	20110720	JP20050514652	20041007
KR20070021107 A	20070222	KR20067006771	20060407
US2006220489 AA	20061005	US20060574698	20060411
US7619344 BB	20091117	US20060574698	20060411
WO05036724 A1	20050421	WO2004JP15181	20041007

Priority:

JP20030349742 20031008 JP20050514652 20041007 WO2004JP15181 20041007
KR20067006771 20060407

Probable Assignee: MITSUBA CORP

Assignee(s): (std): MITSUBA CORP ; OSAWA YUTAKA ; WATANABE SHINGO

Assignee(s): MITSUBA CORP KIRYU

Inventor(s): (std): OSAWA YUTAKA ; WATANABE SHINGO ; SHINGO OSAWA YUTAKA WATANABE

Inventor(s): OSAWA YUTAKA WATANABE SHINGO

Agent(s): HIROSE TETSUO; OLIFF AND BERRIDGE PLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ
DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE
KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG
PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA
ZM ZW

33) Family number: 1254189 (US3961223A)

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Title: Astigmatic focus correction circuit

Abstract: A cathode ray tube employing magnetic deflection coils for deflecting the electron beam in the horizontal and vertical directions, is corrected for the astigmatism error created by the non-uniform magnetic deflection field which causes a predictable elliptical distortion of the electron beam, through the use of two sets of correction coils mounted on a common annular magnetic core located on the neck of the CRT, which distorts the electron beam prior to its entry into the magnetic deflection field in a manner that is complementary to the distortion created by the non-uniform magnetic deflection field. The excitation currents for the correction coils are derived from the horizontal (Vx) and vertical (Vy) beam deflection voltage signals, in such a manner that the excitation current for the first correction coil is proportional to $V_x^2 - V_y^2$, and the excitation for the second correction coil is proportional to $2 \cdot V_x \cdot V_y$.

Classifications:

International (IPC 8-9): H01J29/56 H01J29/58 H04N3/233 H04N3/26
H04N9/28 (Advanced/Invention);
H01J29/56 H01J29/58 H04N3/22 H04N3/26 H04N9/28 (Core/Invention)

International (IPC 1-7): G01R G06K15/20 H01J29/54 H01J29/56

H01J29/58 H01J29/66 H01J29/72 H01J29/76 H04N5/21 H04N9/28

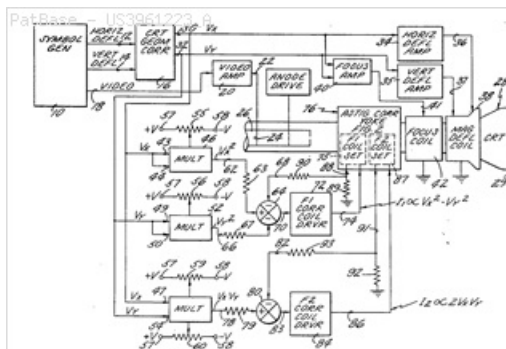
CPC: H01J29/56 H01J229/5687 H04N3/2335 H04N3/26 H04N9/28

European: H01J29/56 H04N3/233C H04N3/26 H04N9/28

T01J229/568C5

US: 315/371 315/382 348/E03.045 348/E03.048 348/E09.021

348/E3.045 348/E3.048 348/E9.021



Family:

Publication number	Publication date	Application number	Application date
BE838916 A	19760616	BE19760164620	19760225
BR7600945 A	19760914	BR19760000945	19760216
CA1041218 A1	19781024	CA19760243387	19760109
DE2606251 A1	19760916	DE19762606251	19760217
DK56576 A	19760905	DK19760000565	19760212
FR2303375 A1	19761001	FR19760003698	19760211
FR2303375 B1	19781215	FR19760003698	19760211
GB1529915 A	19781025	GB19760008094	19760301
IE43761 B	19810520	IE19760000145	19760126
IE43761 L	19760904	IE19760000145	19760126
IT1056827 A	19820220	IT19760020792	19760303
JP1032943 C3	19810220	JP19760023064	19760303
JP51112116 A2	19761004	JP19760023064	19760303
JP55021980 B4	19800613	JP19760023064	19760303
LU74267 A	19760723	LU19760074267	19760129
NL183479 B	19880601	NL19760000088	19760106
NL183479 C	19881101	NL19760000088	19760106
NL7600088 A	19760907	NL19760000088	19760106
US3961223 A	19760601	US19750555319	19750304

Priority:

US19750555319 19750304

Probable Assignee: UNITED TECHNOLOGIES CORP

Assignee(s): (std): UNITED TECHNOLOGIES CORP

Assignee(s): UNITED TECHNOLOGIES TE HARTFORD CONNECTICUT VER ST V AM CORP ; RAY THOMAS J ;
REBESCHI THOMAS J ; UNITED TECH CORP

Inventor(s): (std): RAY T ; RAY T J ; RAY TH J ; RAY THOMAS J ; RAY THOMAS JOSEPH ; REBESCHI T ; REBESCHI T J ; REBESCHI TH J ; REBESCHI THOMAS J ; REBESCHI THOMAS JOHN ; TOOMASU JIYOON REBECHI ; TOOMASU JIYOSEFU REI

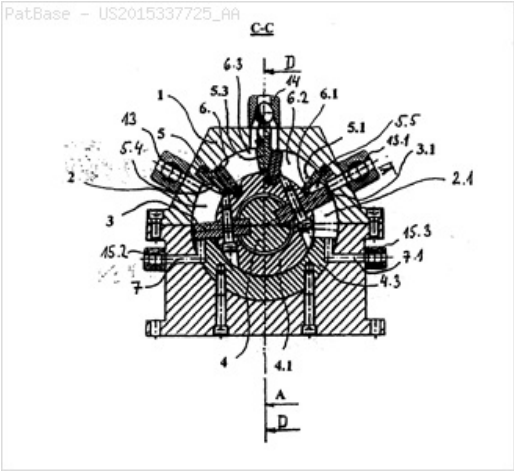
Inventor(s): JOHN REBESCHI THOMAS ; JOSEPH RAY THOMAS ; TH J RAY ; TH J REBESCHI ; THOMAS JOSEPH RAY ET THOMAS JOHN REBESCHI

34) Family number: 53570196 (US2015337725A) © PatBase

Title: COMBINED DRIVING SYSTEM OF AN ELECTRIC ENERGY GENERATOR WITH THE UTILIZATION OF THE PRESSURE POTENTIAL OF A HIGH-ENERGY MEDIUM GENERATED IN THE FORM OF A MIXTURE OF EXHAUST GASES AND COMPRESSED AIR WITH THE AID OF A MOTOR WITH ROCKING PISTONS WITH AN INTEGRATED COMPRESSOR SECTION

Abstract: The essence of the solution resides in that an internal combustion engine with rocking pistons is constituted by a shared working space in a shared housing (1) of the motor and a compressor in the central portion of which there are formed in a mirrored fashion combustion chambers (2, 2.1) containing rocking blades (3, 3.1) of the motor that are rigidly radially supported on a turnable central shaft (4) and in a carrier ring (4.1) and wherein the rocking blades (3, 3.1) are to advantage mutually angled with respect to each other and wherein the combustion chambers (2, 2.1) are delimited on the one side by delimiting partitions (5, 5.1) radially disposed at the inner circumferential surface of the shared housing (1) of the motor and the compressor, where the turnable central shaft (4) is provided with an oscillating yoke (8) having arms that are connected by means of a pair of piston rods (9, 9.1) with a pair of crankshafts (10, 10.1) on the outer ends of which there is supported a pair of flywheels (11, 11.1) that are provided on their peripheries with coils (12, 12.1) of a stator winding. A pressurized mixing chamber (17) that is connected to the outlet (28) of the exhaust gases from the rocking motor and to the outlet (29) of the pressurized air from the compressor part is provided with a main outlet (22) for the energy medium that is connected to the working expansion machine (23) that is connected with a working generator (25) of electric current, and the collection mixing chamber (17) is connected by a relief outlet (18) for the energy medium to an inlet (19) of a relief expansion machine (20) that is connected to a relief generator (21) of electric current that is electrically connected with coils (12, 12.1) of a stator winding. The combined driving system can be used primarily for the driving of generators of electric current, but its use is not limited to the driving of mobile machines and other apparatuses requiring rotary motion for their operation.

Classifications:
International (IPC 8-9): F01C9/00 F01K23/00 F02B53/00 F02B53/14 F02B63/04 F02C5/06 F02G3/00 F02G5/02 (Advanced/Invention)
CPC: F02B63/044 F02B53/00 F02B53/14 F02G5/02 Y02T10/166 Y02T10/17 F01C9/002 F01C11/008 F01C17/06 F04C2210/22 F01C9/00 F02B63/042
US: 123/245 290/1A



Family:

Publication number	Publication date	Application number	Application date
CZ20110688 A3	20130417	CZ20110000688	20111026
CZ303749 B6	20130417	CZ20110000688	20111026
US2015337725 AA	20151126	US20120120131	20121026
WO13060309 A2	20130502	WO2012CZ00108	20121026
WO13060309 A3	20130704	WO2012CZ00108	20121026

Priority:

CZ20110000688 20111026 CZ20120000688 20111026 WO2012CZ00108 20121026

Probable Assignee: CESKE VYSOKE UCENI TECHNICKE V PRAZE

Assignee(s): (std): CESKE VYSOKE UCENI TECHNICKE V PRAZE ; FROLIK JIRI

Inventor(s): (std): FROLIK JIRI ; HRUBA RENATA ; NOZICKA JIRI

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

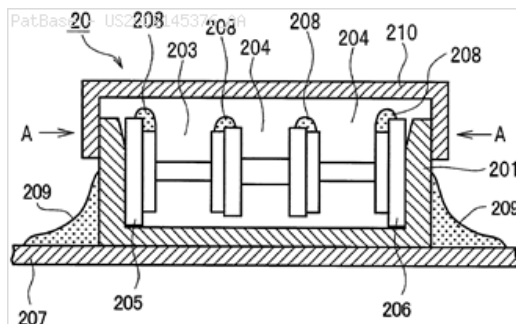
35) Family number: 28328198 (US2002145376A) © PatBase

Title: Color cathode ray tube having a deflection unit

Abstract: A clamp unit which brings respective vertical and horizontal cores and bias magnets of a magnetic current modulator into close contact with each other in the core arrangement direction is provided to a resin casing of the magnetic current modulator. Due to such a constitution, the generation of an uncomfortable sound derived from a magnetic distortion of cores of the magnetic current modulator incorporated in a deflection unit can be prevented.

Classifications:

International (IPC 8-9): H01J29/70 H01J29/76
H01J29/82 (Advanced/Invention);
H01J29/76 (Advanced/Non-invention);
H01J29/70 H01J29/76 H01J29/82 (Core/Invention)
International (IPC 1-7): H01J29/46 H01J29/70 H01J29/76 H01J3/20
CPC: H01J29/70 H01J29/826
European: H01J29/70 H01J29/82B2
US: 313/269 313/440 313/442



Family:

Publication number	Publication date	Application number	Application date
CN1207752 C	20050622	CN20021007003	20020307
CN1374682 A	20021016	CN20021007003	20020307
JP2002270115 A2	20020920	JP20010066055	20010309
KR20020072222 A	20020914	KR20020012366	20020308
US2002145376 AA	20021010	US20020081284	20020222
US6621204 BB	20030916	US20020081284	20020222

Priority:

JP20010066055 20010309

Probable Assignee: HITACHI ENGINEERING CO LTD

Assignee(s): (std): HITACHI DEVICE ENG ; HITACHI ENG CO LTD ; HITACHI LTD ; HONMA KOUICHI ; KAKESU TAKATERU ; KOGANEZAWA NOBUYUKI

Assignee(s): HITACHILTD ; HITACHI ENGINEERING CO LTD ; HITACHI DEVICE ENG CO LTD ; HITACHI DEVICE ENGINEERING CO ; HITACHI DEVICE ENGINEERING CO LTD

Inventor(s): (std): HONMA KOICHI ; HONMA KOUICHI ; KAKESU TAKATERU ; KOGANEZAWA NOBUYUKI ; KOICHI HONMA ; NOBUYUKI KOGANEZAWA ; TAKATERU KAKESUS

Inventor(s): KAKESUS TAKATERU ; KOGANEZAWA NOBUYUKI

36) Family number: 29028213 (US2005152577A)

© PatBase

Title: PLANAR SPEAKER

Abstract: The present invention provides a planar acoustic transducer including a vibrating diaphragm including a spiral voice coil provided on both surfaces or on one surface of an insulating base film; and a permanent magnet corresponding to the voice coil, wherein, in the vibrating diaphragm, the spiral voice coil is formed by applying a wire conductor, in a coil pattern, onto a sheet-like substrate having an adhesive layer on at least one surface thereof. Alternatively, at least a portion of the vibrating diaphragm, which portion corresponds to the loop of a first or second vibration mode, is reinforced with a rigidity-imparting member; the substrate of the vibrating diaphragm is formed of a resin foam; or the voice coil is formed three-dimensionally.

Classifications:

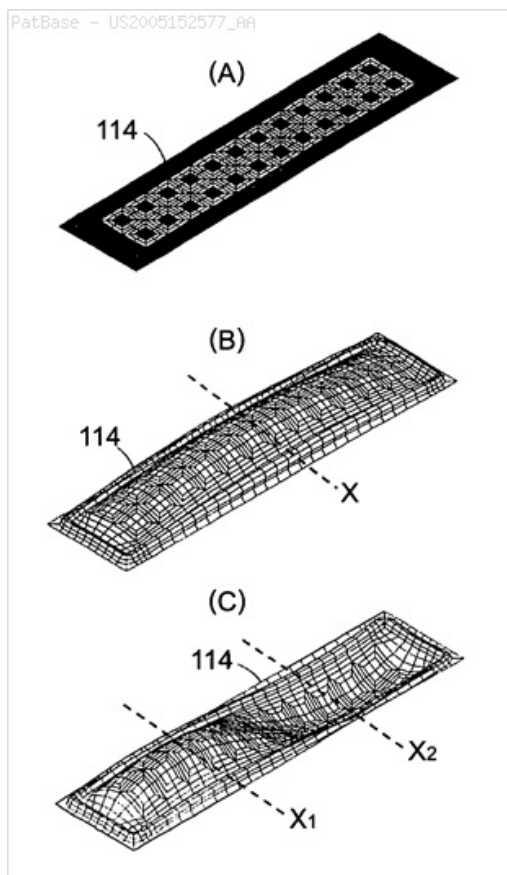
International (IPC 8-9): B60R11/02 H04R25/00 H04R31/00
H04R7/02 H04R7/04 H04R9/00 H04R9/04 (Advanced/Invention);
H04R7/04 H04R9/04 (Advanced/Non-invention);
H04R7/00 H04R9/00 (Core/Invention)

International (IPC 1-7): H04R1/00 H04R11/02 H04R25/00 H04R7/04
H04R9/00 H04R9/04

CPC: H04R9/047 H04R2307/029 H04R2499/11 H04R2499/13
H04R7/04

European: H04R7/04 H04R9/04N2 T04R307/029 T04R499/11
T04R499/13

US: 381/152 381/152S 381/191 381/191S 381/408 381/431
381/431P



Family:

Publication number	Publication date	Application number	Application date
CN1640187 A	20050713	CN20038004791	20030228
EP1489881 A1	20041222	EP20030743076	20030228
EP1489881 A4	20090603	EP20030743076	20030228
EP2234409 A2	20100929	EP20100169975	20030228
EP2234409 A3	20101006	EP20100169975	20030228
EP2234410 A2	20100929	EP20100169976	20030228
EP2234410 A3	20101006	EP20100169976	20030228
JP2003073787 A1	20050623	JP20030572327T	20030228
JP2008167475 A2	20080717	JP20080031586	20080213
JP5184127 B2	20130417	JP20080031586	20080213
KR20040091056 A	20041027	KR20047012765	20030228
US2005152577 AA	20050714	US20050504850	20050208
US7283636 BB	20071016	US20050504850	20050208
WO03073787 A1	20030904	WO2003JP02390	20030228

Priority:

JP20020053763	20020228	JP20020248138	20020828	EP20030743076	20030228
WO2003JP02390	20030228	JP20030572327	20030228	JP20030572327T	20030228
JP20080031586	20080213				

Probable Assignee: FURUKAWA ELECTRIC CO LTD

Assignee(s): (std): IIZUKA KENJI ; IKEDA HIROSHI ; ISHIWA MASAYUKI ; NISHIMURA TAKESHI ; YAMAGUCHI SHIGEO ; YOKOYAMA TSUTOMU ; YONEHARA HIDEHARU ; SAKURAI SADAANKI ; ARAHORI MASAANKI ; FURUKAWA ELECTRIC CO LTD

Assignee(s): FURUKAWA ELECTRIC CO LTD THE ; FURUKAWA ELECTRIC CO ; THE FURUKAWA ELECTRIC CO ; THE FURUKAWA ELECTRIC CO LTD

Inventor(s): (std): ARAHORI MASAANKI ; HIDEHARU YONEHARA ; HIROSHI IKEDA ; IIZUKA KENJI ; IKEDA HIROSHI ; ISHIWA MASAYUKI ; KENJI IIZUKA ; MASAANKI ARAHORI ; MASAYUKI ISHIWA ; NISHIMURA TAKESHI ; SADAANKI SAKURAI ; SAKURAI SADAANKI ; SHIGEO YAMAGUCHI ; TAKESHI NISHIMURA ; TSUTOMU YOKOYAMA ; YAMAGUCHI SHIGEO ; YOKOYAMA TSUTOMU ; YONEHARA HIDEHARU ; ISAWA MASAYUKI

Agent(s): MCILROY STEVEN DAVID ; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

Designated states: AT BE BG CH CN CY CZ DE DK EE ES FI FR GB GR HU IE IT JP KR LU MC NL PT SE SI SK TR US

37) Family number: 48166228 (US2011012470A)

© PatBase

Title: MOTOR

Abstract: A motor comprises a stator and a rotor. The stator comprises 2P poles wherein P is an integer greater than one. The rotor comprises a shaft, a rotor core and a commutator fixed to the shaft. The commutator comprises m segments where m is an even integer greater than P. Every two adjacent segments are electrically connected by a winding unit so that the rotor winding comprises m winding units with at least one of the winding units comprising P coils connected in series; and each coil of each winding unit is directly connected to a corresponding two segments.

Classifications:

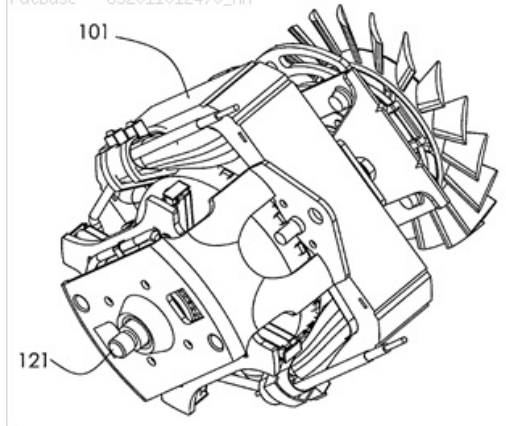
International (IPC 8-9): H02K23/02 H02K23/26 H02K23/32 H02K23/36 H02K3/28 (Advanced/Invention)

CPC: H02K23/34

European: H02K23/26 H02K23/34 T02K3/28

US: 310/195 310/195P 310/198

PatBase - US2011012470-AA

**Family:**

Publication number	Publication date	Application number	Application date
CN101958624 A	20110126	CN200910108820	20090720
CN101958624 B	20131211	CN200910108820	20090720
DE102010027652 A1	20120315	DE201010027652	20100719
DE102010027652 A8	20120927	DE201010027652	20100719
JP2011024417 A2	20110203	JP20100176753	20100720
JP5722568 B2	20150520	JP20100176753	20100720
US2011012470 AA	20110120	US20100839889	20100720
US8575811 BB	20131105	US20100839889	20100720

Priority:

CN200910108820	20090720	DE201010027652	20100719
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Probable Assignee: JOHNSON ELECTRIC SA

Assignee(s): (std): CHAI JI DONG ; JIANG MAO XIONG ; JOHNSON ELECTRIC GUANGDONG CO LTD ; PAN JI CHENG ; LIU BAO TING ; SONG YONG QIANG ; LI YUE ; JOHNSON ELECTRIC SA

Assignee(s): JOHNSON ELECTRIC S A ; JOHNSON ELECTRIC GUANGDONG CO

Inventor(s): (std): PAN JI CHENG ; LIU BAO TING ; SONG YONG QIANG ; CHAI JI DONG ; LI YUE ; JIANG MAO XIONG ; SONG YONGQIANG ; JIANG MAOXIONG ; PAN JICHENG ; CHAI JIDONG ; LIU BAOTING ; BAOTING LIU ; YONGQIANG SONG ; MAOXIONG JIANG ; JICHENG PAN ; YUE LI ; JIDONG CHAI ; LI YUO

Agent(s): MUNCY GEISSLER OLDS AND LOWE PLLC

38) Family number: 11219233 (US5831356A)

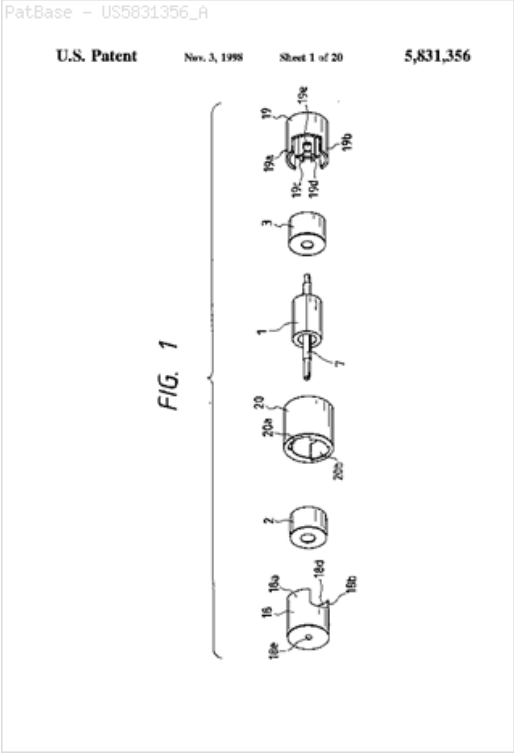
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Title: Compact cylindrical stepping motor and advancing device

Abstract: An ultra compact motor, comprises a magnet which is formed in a cylindrical shape and is circumferentially divided into n portions and alternately magnetized into different magnetic poles at least on the external periphery thereof. A first coil, a rotor and a second coil are arranged in this order along the axial direction of the rotor, and first external and internal magnetic poles magnetized by the first coil are arranged so as to oppose respectively the external and internal peripheries of the magnet at an end of the magnet while second external and internal magnetic poles magnetized by the second coil are arranged so as to oppose respectively the external and internal peripheries of the magnet at the other end of the magnet.

Classifications:

International (IPC 8-9): G02B7/04 H02K37/00 H02K37/12
H02K37/14 H02K37/24 H02K7/06 (Advanced/Invention);
H02K37/00 (Advanced/Non-invention);
G02B7/04 H02K37/00 H02K37/10 H02K37/12
H02K7/06 (Core/Invention);
H02K37/00 (Core/Non-invention)
International (IPC 1-7): G02B7/04 H02K H02K1/12 H02K1/27
H02K37/00 H02K37/10 H02K37/12 H02K37/14 H02K37/24 H02K7/06
CPC: H02K7/06 H02K37/12
European: H02K37/12 H02K7/06
US: 310/12 310/266 310/49.04 310/49R



Title: LARGE GENERATOR SHAFT VOLTAGE REDUCING ARRANGEMENT AND INDICATOR

Abstract: ABSTRACT OF THE DISCLOSURE

In a rotating machine comprising a rotor and a stator of ferritic steel is provided means for reducing unipolar 15 voltages comprising at least one arrangement formed by a plurality of axially-stacked annular plates which en-circle the rotor shaft, said plates being mechanically and magnetically connected to the stator, and being spaced only a short distance from the rotor. 20 B

Classifications:

International (IPC 8-9): G01R31/34 H02K5/16 (Advanced/Invention);
G01R31/34 H02K5/16 (Core/Invention)

International (IPC 1-7): G01R33/00 H02K1/00 H02K1/18 H02K11/00
H02K5/16 H02K7/00

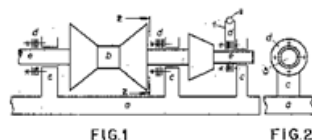
CPC: G01R31/343 H02K5/161

European: G01R31/34B H02K5/16C

US: 310/273 310/68R 310/85 310/90 324/226 324/34

PatBase - US3506912_A

April 14, 1970 R. BRAUN 3,506,912
LARGE GENERATOR SHAFT VOLTAGE REDUCING ARRANGEMENT AND INDICATOR
Filed June 10, 1968



Family:

Publication number	Publication date	Application number	Application date
CH486148 A	19700215	CH19680007697	19680524
DE1588983 B1	19710107	DE19671588983	19670616
FR1568685 A	19690523		19680614
GB1191217 A	19700513	GB19680028382	19680614
SE354950 B	19730326	SE19680008011	19680613
US3506912 A	19700414	US19680735881	19680610

Priority:

DE1967A055995 19670616

Probable Assignee: ALLIANZ

Assignee(s): (std): ALLIANZ

Assignee(s): ALLIANZ VERSICHERUNGS AG ; ALLIANZ VERSICHERUNGS AG DT ; ALLIANZ VERSICHERUNGS AKTIENGESELLSCHAFT

Inventor(s): (std): BRAUN ROBERT ; ROBERT BRAUN DIPL ING ; BRAUN ROBERT DIPL ING ; BRAUN R

Inventor(s): ROBERT BRAUN ; BRAUN R DT

Title: KNOCKDOWN SUPPORT

Abstract: 1. A knockdown support- comprising the combination of a plurality of uprights, yokes on the uprights, a plurality of interchangeable horizontal elements each terminating in a member provided with an opening for receiving the yoke, and wedge pins adapted to enter the yokes and lock the horizontal elements in position upon the uprights. 1, j QV.

Classifications:

International (IPC 8-9): A63G1/00 (Advanced/Invention);
A63G1/00 (Core/Invention)

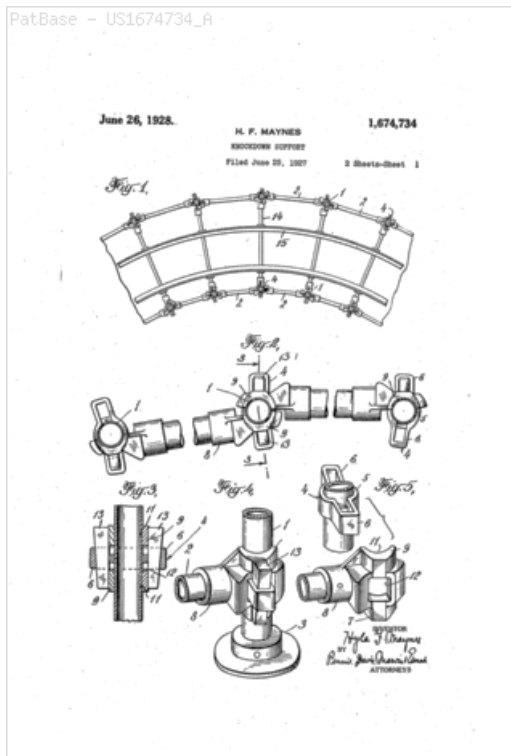
International (IPC 1-7): A63G1/00 E04H3/12

CPC: A63G1/00 A63G7/00 E04G7/307 F16B2/14 F16B7/0493

European: A63G1/00 E04G7/30C3B F16B2/14 F16B7/04D4L

K63G1/00 K63G7/00

US: 104/126 182/186.5

**Family:**

Publication number	Publication date	Application number	Application date
US1674734 A	19280626	US19270201323	19270625

Priority:

US19270201323 19270625

Probable Assignee:

EMMA C MAYNES

Assignee(s): (std):

EMMA C MAYNES

Inventor(s): (std):

MAYNES HYL A F

41) Family number: 43544272 (US2010301686A)

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Title: THREE-STABLE OSCILLATING ELECTROMAGNETIC ACTUATOR

Abstract: A three-stable oscillating electromagnetic actuator includes a cylindrical stator from which a plurality of first magnetic poles project toward a center direction, a mover that extends in a circumferential direction inside the stator and is reciprocatingly and rotatably supported along the circumference, and a plurality of coils that are wound around the first magnetic poles and bias the mover to cause it to stop in three positions, which are a first stable position that is on one end side of a rotation range of the mover, a second stable position that is on the other end side, and a neutral position that is an intermediate position. The three-stable oscillating electromagnetic actuator further includes a second magnetic pole made of a magnetic material that abuts against a rotation-direction end of the mover to stop the mover in the first stable position and the second stable position.

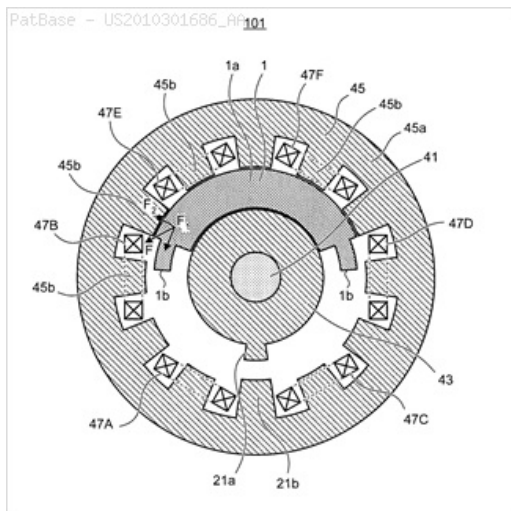
Classifications:

International (IPC 8-9): H01F7/08 H01H31/02 H01H33/38 H01H33/66 H02K26/00 H02K33/00 (Advanced/Invention); H02K33/00 (Core/Invention)

CPC: H02K26/00 H02K33/12

European: H02K33/12

US: 310/36 310/36P 310/39

**Family:**

Publication number	Publication date	Application number	Application date
CN101911449 A	20101208	CN200880124795	20080117
CN101911449 B	20130717	CN200880124795	20080117
EP2234251 A1	20100929	EP20080703400	20080117
EP2234251 A4	20140514	EP20080703400	20080117

EP2234251 B1	20171115	EP20080703400	20080117
JP2009090744 A1	20110526	JP20090549934T	20080117
JP4990376 B1	20120801	JP20090549934T	20080117
JP4990376 B2	20120801	JP20090549934T	20080117
US2010301686 AA	20101202	US20080745260	20080117
US8242643 BB	20120814	US20080745260	20080117
WO09090744 A1	20090723	WO2008JP50545	20080117

Priority:

WO2008JP50545 20080117

Probable Assignee: MITSUBISHI ELECTRIC CORP

Assignee(s): (std): MITSUBISHI ELECTRIC CORP ; NAKAGAWA TAKAFUMI ; TAKAHASHI KAZUKI ; TSUKIMA MITSURU

Inventor(s): (std): TAKAHASHI KAZUKI ; NAKAGAWA TAKAFUMI ; TSUKIMA MITSURU ; MITSURU TSUKIMA ; TAKAFUMI NAKAGAWA ; KAZUKI TAKAHASHI

Agent(s): ZECH STEFAN MARKUS; SAKAI HIROAKI; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

42) Family number: 11262290 (US5988772A)

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Title: HYDRAULIC CONTROL APPARATUS

Abstract: In a solenoid valve, a coil is disposed on the electronic control side, and is resin injection molded integrally with a resin case housing a circuit board on which electronic components are mounted. Before a hydraulic control unit and electronic control unit are connected, an end of a connecting pin of the coil is electrically connected to wiring of the circuit board. A cover 20 of similar material is pressed and welded onto the resin case to assure a waterproof structure around the circuit board. Finally, a magnetic member or magnetic plate, constituting part of a magnetic circuit provided separately from or integrally molded with the resin case is fastened by a bolt to unitarily connect both units.

Classifications:

International (IPC 8-9): B60T8/34 B60T8/36

F16K31/06 (Advanced/Invention);

B60T8/34 B60T8/36 F16K31/06 (Core/Invention)

International (IPC 1-7): B60T8/34 B60T8/36 F16K31/06

CPC: Y10T137/87217 B60T8/3675

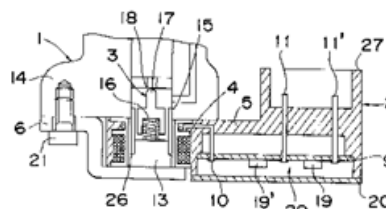
European: B60T8/36F8

US: 137/596.17 303/119.3

PatBase - US5988772_A

U.S. Patent Nov. 23, 1999 Sheet 1 of 8 5,988,772

Fig. 1



Family:

Publication number	Publication date	Application number	Application date
DE69717934 D1	20030130	DE19976017934	19970926
DE69717934 T2	20030731	DE19976017934T	19970926
EP0832801 A2	19980401	EP19970116790	19970926
EP0832801 A3	19990120	EP19970116790	19970926
EP0832801 B1	20021218	EP19970116790	19970926
JP10152035 A2	19980609	JP19970144003	19970602
JP3250488 B2	20020128	JP19970144003	19970602
US5988772 A	19991123	US19970936602	19970924

Priority:

JP19960254262 19960926 JP19970144003 19970602

Probable Assignee: ADVICS CO LTD

Assignee(s): (std): SUMITOMO ELECTRIC IND ; SUMITOMO ELECTRIC INDUSTRIES

Assignee(s): SUMITOMO ELECTRIC INDUSTRIES LTD ; SUMITOMO ELECTRIC IND LTD ; ADVICS CO LTD

Inventor(s): (std): HASHIDA KOICHI

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Title: SYNCHRONOUS MOTOR

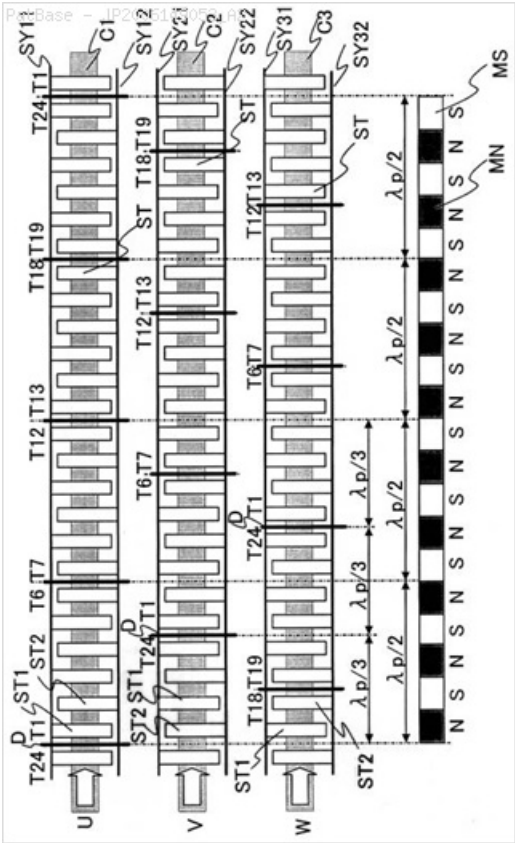
Abstract: PROBLEM TO BE SOLVED: To provide a synchronous motor of which the coil end of an armature winding is eliminated, and which is small in size, reduced in heat generation, improved in efficiency, reduced in torque ripple and improved in controllability. SOLUTION: An armature comprises a first yoke SY1 and a second yoke SY2, and first pole teeth ST1 and second pole teeth ST2 are extensively arranged. A winding C1 is accommodated between the yokes SY1, SY2 and the pole teeth ST1, ST2. When a current is applied, the first pole teeth ST1 and the second pole teeth ST2 are excited at their different poles. When a magnetic pole group cycle constituted of permanent magnets in the armature is set as $\lambda p/2$, and when the number of magnetic poles of a rotor or a movable body equipped in a magnetic pole group semi-cycle $\lambda p/2$ is set as N_m , and the number of base magnetic teeth of the armature as N_s , a relation of $N_s = N_m$ plus or minus 1 is satisfied between N_m that is the number of the magnetic poles and N_s that is the number of the armature magnetic teeth, whereby the magnetic teeth that are adjacent with each other only at each magnetic pole group semi-cycle $\lambda p/2$ are fixed to the same yoke, thus forming a magnetic teeth group boundary.

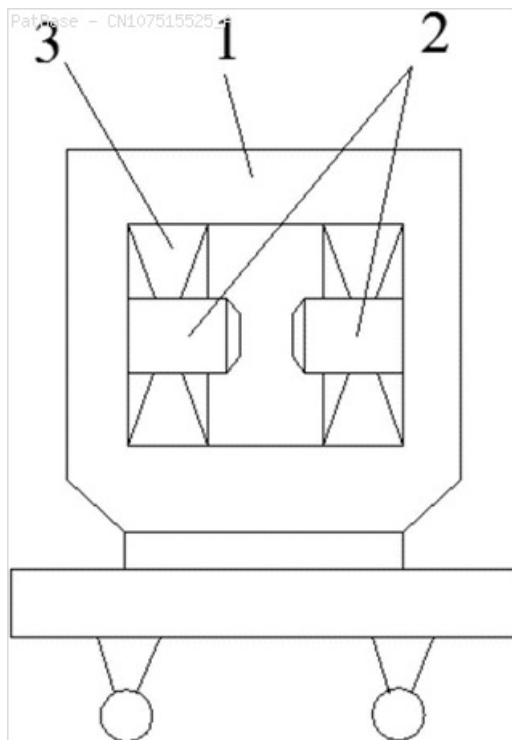
Classifications:

International (IPC 8-9): H02K1/06 H02K21/12
H02K41/03 (Advanced/Invention);
H02K1/06 H02K21/12 H02K41/03 (Core/Invention)

CPC: H02K21/145

European: H02K21/14C





Family:

Publication number	Publication date	Application number	Application date
CN107515525 A	20171226	CN201710825521	20170912

Priority:

CN201710825521 20170912

Probable Assignee: FLYTA GROUP CO LTD

Assignee(s): (std): SHENZHEN FIYTA PRECISION TIMER MFG CO LTD ; FLYTA GROUP CO LTD ; SHENZHEN FIYTA PRECISION TIMER MFG CO LTD

Assignee(s): SHENZHEN FIYTA PRECISION TIMER MFG CO ; FIYTA GROUP CO LTD ; FLYTA GROUP CO

Inventor(s): (std): BAO XIANYONG ; WENG JIANYIN

45) Family number: 1620303 (JP52137606A)

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Title: FRAMELESS FIELD COIL DEVICE AND METHOD OF MANUFACTURING IT

Abstract: The coil consists of an inner winding part (5) impregnated with a cold hardening resin, on whose back insulating ventilating ribs (6, 6') are mounted. They hold at a distance an outer winding part (9). The pole coil is then, together with side insulation (4) pressure strips and front insulating spacing bars (7) impregnated with hot hardening resin and baked together with the pole core (1). The insulating spacer (6) has a U-shaped profile to enable it to retain the outer winding. The pole cores themselves are held inside a yoke ring which has flanges to match the edges of the poles.

Classifications:

International (IPC 8-9): H02K15/12 H02K3/18

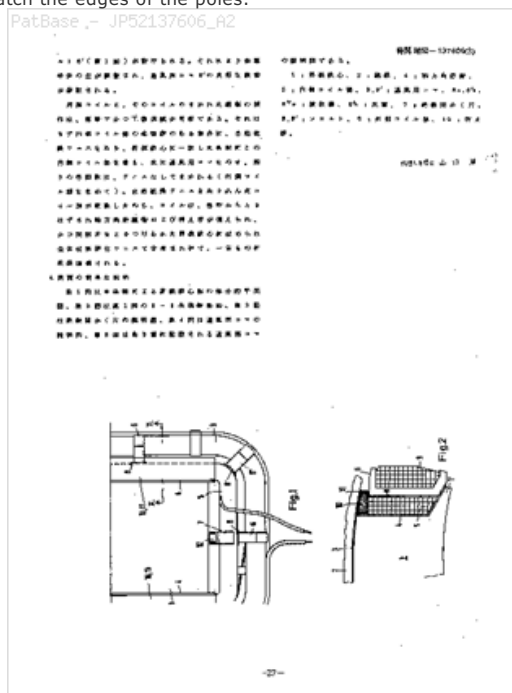
H02K3/32 (Advanced/Invention);

H02K15/12 H02K3/18 H02K3/32 (Core/Invention)

International (IPC 1-7): H02K15/12 H02K3/18 H02K3/36

CPC: H02K3/325

European: H02K3/32B



Family:

Publication number	Publication date	Application number	Application date
DE2620532 A1	19771117	DE19762620532	19760510
DE2620532 B2	19780503	DE19762620532	19760510
DE2620532 C3	19790111	DE19762620532	19760510
JP52137606 A2	19771117	JP19770053646	19770510

Priority:

DE19762620532 19760510

Probable Assignee: SIEMENS AG**Assignee(s):** (std): SIEMENS AG**Inventor(s):** (std): KRAUS WALDEMAR ; WARUDEMAARU KURAUSU ; SCHMIDT KURT ; KURUTO SHIYUMITSUTO ; KRAUS WALDEMAR ING GRAD ; KORD ERICH ; ERITSUHI KORUTO**Inventor(s):** KRAUS WALDEMAR ING ; KRAUS WALDEMAR ING GRAD 8501 LEERSTETTEN ; SCHMIDT KURT 8500 NUERNBERG ; KORD ERICH 8500 NUERNBERG**46) Family number: 43624304 (US2009200888A)**

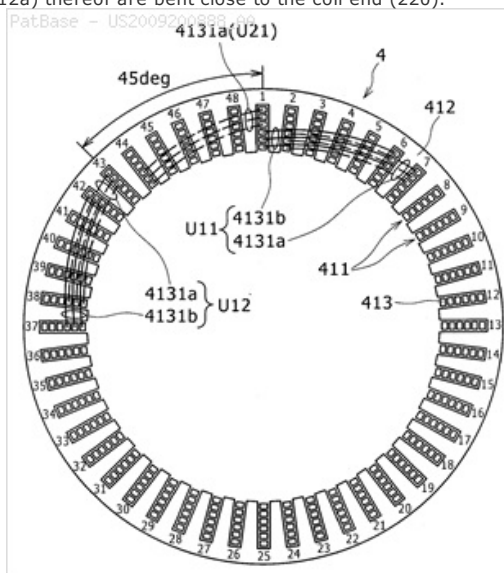
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Title: ROTATING ELECTRIC APPARATUS AND METHOD FOR CONNECTING STATOR COILS THEREOF

Abstract: Each pair of coils mutually connected in a stator winding is arranged in a fashion that a first coil of each pair of coils has an inner-circumferential-side coil terminal (212) led out from an inner-circumferential-side slot position in the direction of a coil end (220) of the stator winding, and that a second coil of each pair of coils has an outer-circumferential-side coil terminal (211) led out from an outer-circumferential-side slot position in the direction of the coil end (220) of the stator winding for connection to the inner-circumferential-side coil terminal (212), wherein there is provided a coil terminal connection structure in which the inner-circumferential-side coil terminal (212) is connected to the outer-circumferential-side coil terminal (211) across the coil end (220), and joint parts (211a, 212a) thereof are bent close to the coil end (220).

Classifications:**International (IPC 8-9):** H02K15/00 H02K3/04 H02K3/12
H02K3/28 (Advanced/Invention);

H02K3/04 H02K3/28 (Core/Invention)

CPC: H02K3/28 H02K3/12 H02K15/0081**European:** H02K15/00E4C H02K3/12 H02K3/28**US:** 310/195 310/195P 310/201 310/71**Family:**

Publication number	Publication date	Application number	Application date
JP2009219343 A2	20090924	JP20080274002	20081024
JP2013150548 A2	20130801	JP20130069282	20130328
JP2015027258 A2	20150205	JP20140226342	20141106
JP5237048 B2	20130717	JP20080274002	20081024
JP5647285 B2	20141224	JP20130069282	20130328
JP5948392 B2	20160706	JP20140226342	20141106
US2009200888 AA	20090813	US20090370307	20090212
US2017054340 AA	20170223	US20160346871	20161109
US8030812 BB	20111004	US20090370307	20090212
USRE46265 E	20170103	US20130046669	20131004

Priority:

JP20080031517 20080213 JP20080274002 20081024 JP20130069282 20081024
US20090370307 20090212 JP20130069282 20130328 US20130046669 20131004
JP20140226342 20141106 US20160346871 20161109

Probable Assignee: HITACHI LTD**Assignee(s):** (std): HITACHI AUTOMOTIVE SYSTEMS LTD ; HITACHI LTD**Inventor(s):** (std): ISHIGAMI TAKASHI ; SAITO YASUYUKI ; TANAKA YUICHIRO ; NAKAYAMA KENICHI**Agent(s):** NAGAI FUYUKI ; CROWELL AND MORING LLP,INTELLECTUAL PROPERTY GROUP; CROWELL AND MORING LLP INTELLECTUAL PROPERTY GROUP; CROWELL AND MORING LLP**47) Family number: 28093305 (US2001033115A)**

© PatBase

Title: BRUSHLESS SPINDLE DC MOTOR USED AS AN ACTUATOR TO CREATE RADIAL FORCE

Abstract: An apparatus for stabilizing the spin axis of a rotating system, the rotating system having a rotor and motor means to cause rotation of the rotor about the spin axis and a magnet, windings, a source of drive current and an actuator combined with the motor means and forming a source of actuator current energizing the windings to generate a radial force which stabilizes the position of the spin axis and dampens other than rotational movements of the rotor.

Classifications:

International (ipc 8-9): F16C39/06 G11B19/20 G11B5/55

H02K21/14 H02K29/00 H02K7/00 H02K7/09

H02P6/08 (Advanced/Invention);

H02K16/00 H02K7/00 (Advanced/Non-invention);

F16C39/00 G11B19/20 G11B5/55 H02K21/14 H02K29/00 H02K7/09

H02P6/08 (Core/Invention);

H02K16/00 (Core/Non-invention)

International (ipc 1-7): G11B17/02 G11B5/55 H02K1/00 H02K1/10

H02K11/00 H02K21/12 H02K21/14 H02K29/00 H02K5/24 H02K7/00

H02K7/04 H02K7/09 H02P6/08 H02P6/10

CPC: F16C2370/12 G11B19/20 H02K16/00 H02K29/03 F16C32/0497

F16C2380/26 F16C32/0444 F16C32/0493 G11B5/5552 H02K7/09

European: F16C32/04 F16C32/04M4C F16C32/04M4R6 F16C39/06

G11B19/20 G11B5/55D2 H02K7/09 T02K16/00 T02K29/00

T02K29/03

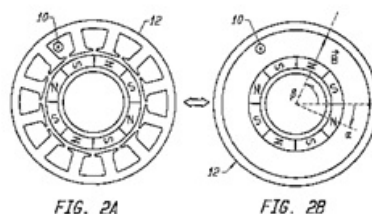
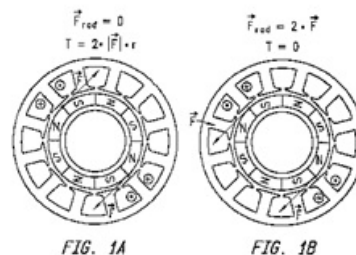
US: 310/179 310/180 310/181 310/183 310/186 310/216.001

310/254 310/261 310/261.1 310/51 310/67R 310/68B 310/90.5

360/99.08 G9B/5.193

PatBase - US2001033115_AA

Patent Application Publication Oct. 25, 2001 Sheet 1 of 23 US 2001/0033115 A1



Family:

Publication number	Publication date	Application number	Application date
DE19782264 T	20000511	DE19971082264T	19970319
DE19782264 T0	20000511	DE19971082264T	19970319
DE19782264 T1	20000511	DE19971082264T	19970319
GB2337647 A1	19991124	GB19990021852	19970319
GB2337647 B2	20010418	GB19990021852	19970319
GB9921852 A0	19991117	GB19990021852	19970319
HK1023858 A1	20011123	HK20000102978	20000518
JP2002511228 T2	20020409	JP19980540459T	19970319
JP4034358 B2	20080116	JP19980540459T	19970319
KR100393858 B1	20030806	KR19997008496	19990917
KR20000076393 A	20001226	KR19997008496	19970319
US2001033115 AA	20011025	US20010764766	20010116
US6201322 BA	20010313	US19980029043	19980224
US6603225 BB	20030805	US20010764766	20010116
WO9842063 A1	19980924	WO1997US04197	19970319

Priority:

WO1997US04197 19970319 US19980029043 19980224 US20010764766 20010116

Probable Assignee: SEAGATE TECHNOLOGY PLC

Assignee(s): (std): FLEURY CHRISTIAN ; HEINE GUNTER K ; SEAGATE TECHNOLOGY ; LEUTHOLD HANS ; SEAGATE TECHNOLOGY LLC ; SEAGATE TECHNOLOGY PLC

Assignee(s): WELLS FARGO BANK NATIONAL ASSOCIATION AS COLLATERA ; WELLS FARGO BANK NATIONAL ASSOCIATION AS ; WELLS FARGO BANK NATIONAL ASSOCIATION COLLATERAL AGENT AND SECOND PRIORITY REPRESENTATIVE AS ; JPMORGAN CHASE BANK NA ; SEAGATE TECHNOLOGY INC ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AND FIRST PRIORITY REPRESENTATIVE AS ; MAXTOR CORP ; SEAGATE TECHNOLOGY HDD HOLDINGS ; SEAGATE TECHNOLOGY INT ; SEAGATE TECHNOLOGY US HOLDINGS INC ; SEAGATE TECHNOLOGY INC ; BANK OF NOVA SCOTIA ADMINISTRATIVE AGENT AS ; EVAULT INC F K A I365 INC ; JPMORGAN CHASE BANK AS COLLATERAL AGENT ; JPMORGAN CHASE BANK COLLATERAL AGENT AS

Inventor(s): (std): LEUTHOLD HANS ; HEINE GUNTER KARL ; HEINE GUNTER K ; FLEURY CHRISTIAN

Inventor(s): CHRISTIAN FLEURY ; HANS LEUTHOLD ; GUNTER KARL HEINE

Designated states: DE GB JP KR SG US

48) Family number: 19503312 (GB666824A)

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Title: Improvements in or relating to measuring apparatus

Abstract: 666,824. Electric measuring apparatus. SIGMA INSTRUMENT CO., Ltd., BOOSEY, F. R., and HAMILTON, J. H. Oct. 11, 1950. [Oct. 11, 1949] No. 26118/49. Class 40 (i). A differentially variable inductance for use in measuring apparatus comprises two magnetic yokes 1, 5, each having three pole-pieces forming three co-operating polepairs. The yokes are secured together e.g. by lath springs 8, 10 permitting lateral rectilinear movement of one yoke relative to the other, by the variable being measured. Such movements vary the airgaps 11, 12 differentially by virtue of the opposite obliquity of the corresponding pole-faces, the gap 13 remaining substantially unchanged. The cross-sectional areas of the three gaps are maintained substantially constant by making the pole-pieces (i, 7, 8 of greater sectional area than the corresponding pole-pieces on yoke 1. Coils surround the pole-pairs 2, 7 and 3, 6 the inductance of these coils varying differentially with the

corresponding airgaps. Specification 616,978 is referred to.

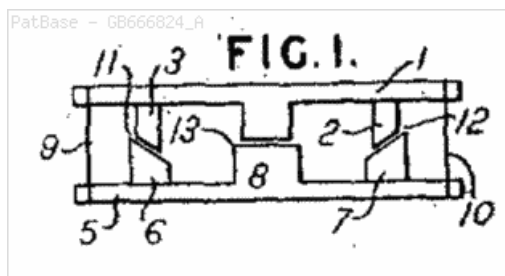
Classifications:

International (IPC 8-9): G01D5/22 (Advanced/Invention);

G01D5/12 (Core/Invention)

CPC: G01D5/2216

European: G01D5/22B1



Family:

Publication number	Publication date	Application number	Application date
GB666824 A	19520220	GB19490026118	19491011

Priority:

GB19490026118 19491011

Probable Assignee: FREDERICK ROBERT BOOSEY

Assignee(s): (std): FREDERICK ROBERT BOOSEY ; JOHN HUNTER HAMILTON ; SIGMA INSTR CO LTD

Assignee(s): THE SIGMA INSTRUMENT COMPANY LIMITED

49) Family number: 44816317 (US2010079604A)

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Title: OPTICAL APPARATUS

Abstract: An optical apparatus includes a lens frame 12 which holds a focus correction lens 11a and is movable in an optical axis direction, optical axis direction position detectors 19a to 19c which are arranged on one of the lens frame 12 and a supporting portion 13 inside a barrel and detect signals in accordance with a distance to the other one, driving portions 112a to 112c and coils 17a to 17c (driver) which drive the lens frame 12 in the optical axis direction, an optical axis direction movement limiting member of the lens frame, and a lens CPU 1204 (controller) which controls the driver so as to suppress a tilt of the focus correction lens 11a based on a signal detected by the optical axis direction position detectors 19a to 19c whose sensitivities have been calibrated in association with the driving portions and the optical axis direction movement limiting member.

Classifications:

International (IPC 8-9): G02B7/04 G02B7/08 G03B5/00 H04N5/225

H04N5/228 H04N5/232 (Advanced/Invention);

G02B7/64 (Advanced/Non-invention);

G02B7/04 G03B5/00 H04N5/225 H04N5/228

H04N5/232 (Core/Invention);

G02B7/64 (Core/Non-invention)

CPC: G02B7/08 G02B7/646 H04N5/2254 H04N5/23212

H04N5/23248 H04N5/23258 H04N5/23287

European: G02B7/64V G02B7/08 H04N5/225C4 H04N5/232F

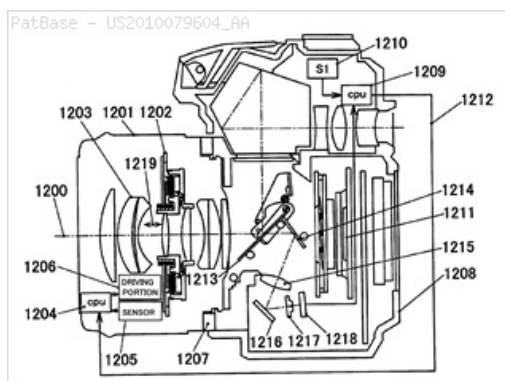
H04N5/232S H04N5/232S1B H04N5/232S2C2 T04N5/232S1B

T04N5/232S2C2

US: 348/208.4 348/208.400P 348/208.7 348/208.99 348/340

348/340S 348/E5.024 348/E5.031 348/E50.24S 348/E50.31S

359/557 359/557S



Family:

Publication number	Publication date	Application number	Application date
CN101713859 A	20100526	CN200910177194	20090928
CN101713859 B	20130918	CN200910177194	20090928
JP2010085471 A2	20100415	JP20080251673	20080929
JP5517431 B2	20140611	JP20080251673	20080929
US2010079604 AA	20100401	US20090566346	20090924
US8218018 BB	20120710	US20090566346	20090924

Priority:

JP20080251673 20080929

Probable Assignee: CANON INC

Assignee(s): (std): CANON KK ; WASHISU KOICHI

Assignee(s): CANON INC ; CANON KABUSHIKI KAISHA

Inventor(s): (std): WASHISU KOICHI ; KOICHI WASHISU

Agent(s): COWAN LIEBOWITZ AND LATMAN PC JOHN J TORRENTE; COWAN LIEBOWITZ AND LATMAN PC

50) Family number: 55411333 (WO14177748A1)

© PatBase

Title: COMPACT SUPERCONDUCTING CLASSICAL CYCLOTRON

Abstract: The invention relates to a weak-focusing compact superconducting classic cyclotron essentially oriented towards isotope production. The cyclotron comprises: at least two parts made from magnetic material (1) which act as a magnetic poles and as a magnetic return circuit, located symmetrically on each side of the mid-plane (2) of the cyclotron; at least two superconducting coils (3) located symmetrically on each side of the mid-plane (2) of the cyclotron, housed in the aforementioned magnetic parts (1); a vacuum chamber (12) including an inlet for particles to be accelerated with at least two electrodes (17, 18); and a radio-frequency resonant cavity comprising an inner conductor (15) connected to one of the

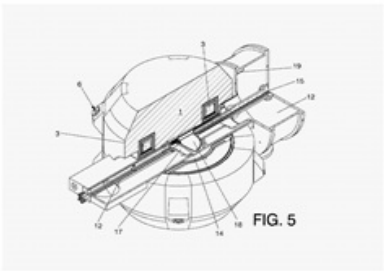
electrodes (18) and an outer conductor connected to the other electrode (17). According to the invention, the coils (3) are surrounded by at least one cryostat (10), such that only the coils (3) operate at cryogenic temperature.

Classifications:

International (IPC 8-9): H05H13/00 H05H13/02 (Advanced/Invention); A61N5/10 (Advanced/Non-invention)

CPC: H05H13/005 H05H2007/022 H05H7/02

PatBase - W014177748_R1



Family:

Publication number	Publication date	Application number	Application date
ES2436010 AA	20131226	ES20130030626	20130430
ES2436010 BA	20140912	ES20130030626	20130430
WO14177748 A1	20141106	WO2014ES70379	20140430

Priority:

ES20130030626 20130430

Probable Assignee: CT INVESTIG ENERGETICAS CIEMAT

Assignee(s): (std): CT DE INVESTIGACIONES ENERGETICAS MEDIOAMBIENTALES Y TECNOLOGICAS CIEMAT ; CT INVESTIG ENERGETICAS CIEMAT ; UNIV MADRID CARLOS III

Assignee(s): UNIVERSIDAD CARLOS III DE MADRID ; CENTRO DE INVESTIGACIONES ENERGETICAS MEDIOAMBIENTALES Y TECNOLOGICAS CIEMAT

Inventor(s): (std): PODADERA ALISEDA IVAN ; MUNILLA LOPEZ JAVIER ; OLIVER AMOROS CONCEPCION C ; TORAL FERNANDEZ FERNANDO ; GAVELA PEREZ DANIEL ; OBRADORS CAMPOS DIEGO ; GARCIA TABARES RODRIGUEZ LUIS ; VAZQUEZ VELEZ CRISTINA ; CALERO GUTIERREZ JESUS ; PEREZ MORALES JOSE M ; DESCO MENENDEZ MANUEL ; HAUG FRIEDRICH

Inventor(s): LUIS GARCIA TABARES RODRIGUEZ ; DIEGO OBRADORS CAMPOS ; JESUS CALERO GUTIERREZ ; FRIEDRICH HAUG ; FERNANDO TORAL FERNANDEZ ; CONCEPCION C OLIVER AMOROS ; JOSE M PEREZ MORALES ; DANIEL GAVELA PEREZ ; MANUEL DESCO MENENDEZ ; IVAN PODADERA ALISEDA ; CRISTINA VAZQUEZ VELEZ ; JAVIER MUNILLA LOPEZ

Agent(s): PONS ANGEL; PONS ARINO ANGEL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

51) Family number: 32848336 (US2008095647A)

© PatBase

Title: FLUID-PRESSURE GENERATOR

Abstract: A fluid-pressure generator, in order to generate a high pressure-level in fluids at high speed in a small construction space, with an inlet which is adapted to receive fluid from a supply line, with an electrically triggerable actuating device which is adapted to interact with an ejection-valve arrangement in order to allow fluid to flow out through a fluid outlet, wherein the fluid outlet is connected to a chamber by a flow duct, a displaceable piston, which is provided for the purpose of changing the volume of the chamber, projects into the chamber, and the piston is to be actuated by an electromagnet arrangement in the sense of a diminution of volume, the electromagnet arrangement exhibiting a stator and an armature, and the stator taking the form of a multipole stator which exhibits one or more excitation coils assigned to the respective stator poles.

Classifications:

International (IPC 8-9): F02M51/00 F02M57/02 F04B17/04 F04B53/10 (Advanced/Invention);

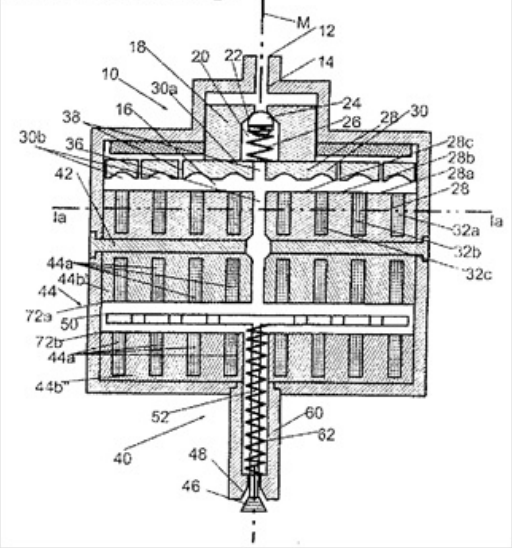
F02M51/00 F02M57/00 F04B17/03 F04B53/10 (Core/Invention)

CPC: F04B17/042 F04B17/046

European: F04B17/04B F04B17/04D

US: 417/417

PatBase - US2008095647_AA



Family:

Publication number	Publication date	Application number	Application date
DE102004051138 A1	20060504	DE200410051138	20041020
DE102004051138 B4	20061130	DE200410051138	20041020
EP1802868 A1	20070704	EP20050787194	20050919
US2008095647 AA	20080424	US20050577679	20050919
WO06042605 A1	20060427	WO2005EP10100	20050919

Priority:

DE200410051138 20041020 WO2005EP10100 20050919

Probable Assignee: COMPACT DYNAMICS GMBH

Assignee(s): (std): COMPACT DYNAMICS GMBH ; GRUENDL ANDREAS ; GRUNDL ANDREAS ; HOFFMANN BERNHARD

Inventor(s): (std): GRUENDL ANDREAS ; HOFFMANN BERNHARD ; GRUNDL ANDREAS

Agent(s): HISCOCK AND BARCLAY LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

52) Family number: 17760343 (US4999530A)

© PatBase

Title: Linear pulse motor with magnetic armature lock

Abstract: In a planar linear pulse motor, the relative movement between the stator and the armature is positively restricted when no electric current is supplied to the drive coils by means of a lock member provided on either the armature or the stator. This lock member is attracted to a permanent magnet by its biasing magnetic flux so as to be brought into contact with whichever of the armature or stator does not have the lock member on it. As a result, the armature may be locked up without consuming any electric power. If the lock member is attached to the stator or armature by means of an elastic member, the vertical dimension of the member attaching the lock member to the stator or armature can be reduced. Furthermore, the mechanical strength and the security of the engagement of the lock member to the stator or armature can be increased. As a result, the planar linear pulse motor disclosed is compact and highly reliable. In those cases when the lock member is mounted on the stator, there is no increase in the moving mass of the motor, resulting in no impairment of the rate of response of the pulse motor.

Classifications:

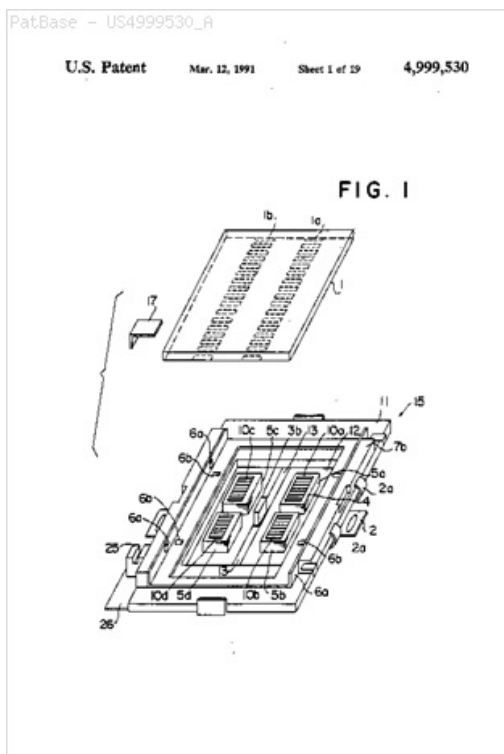
International (IPC 8-9): G11B5/55 H02K41/03 (Advanced/Invention)

International (IPC 1-7): G11B21/22 G11B5/55 H02K41/03 H02K7/106

CPC: G11B5/5521 H02K41/031

European: G11B5/55D H02K41/03M

US: 310/12 310/12.08 310/12.27 310/77 G9B/005.187 G9B/5.187



Family:

Publication number	Publication date	Application number	Application date
EP0357014 A2	19900307	EP19890115967	19890830
EP0357014 A3	19910724	EP19890115967	19890830
JP2037588 U1	19900313	JP19880113998U	19880830
JP2065654 A2	19900306	JP19880215788	19880830
US4999530 A	19910312	US19890399944	19890829

Priority:

JP19880113998U 19880830 JP19880215788 19880830

Probable Assignee: OMRON CORP

Assignee(s): (std): OMRON TATEISI ELECTRONICS CO

Assignee(s): OMRON CORP ; OMRON TATEISI ELECTRON CO

Inventor(s): (std): ITOH KOHJI C O PATENT DEPARTME ; TAKEMURA KENJI C O PATENT DEPA ; AZUMA HIROSHI C O PATENT DEPAR ; ITOH KOHJI ; TAKEMURA KENJI ; AZUMA HIROSHI

Inventor(s): AZUMA HIROSHI C O PATENT DEPARTMENT ; ITOH KOHJI C O PATENT DEPARTMENT ; TAKEMURA KENJI C O PATENT DEPARTMENT

53) Family number: 54786343 (US2015022000A)

© PatBase

Title: REACTOR AND POWER SUPPLY DEVICE EMPLOYING THE SAME

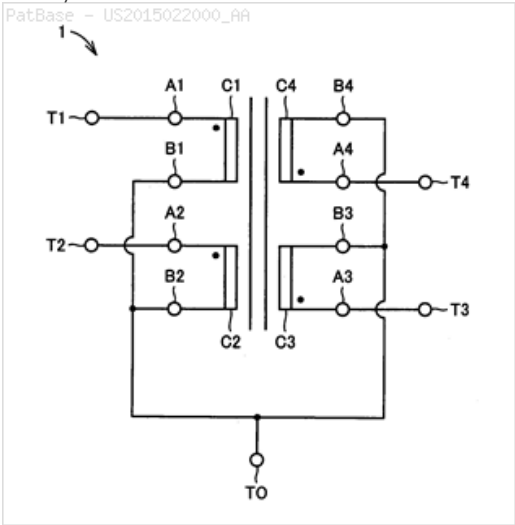
Abstract: A reactor includes an annular iron core and four coils separately wound around the iron core. The four coils have first electrodes connected to output terminals of four choppers, respectively, and second electrodes each connected to a load. Therefore, the four choppers can be connected in parallel to the load by one reactor.

Classifications:

International (IPC 8-9): H01F27/24 H01F27/28 H01F27/29 H01F37/00 H02M3/155 H02M3/158 H02M7/48 (Advanced/Invention)

CPC: H01F27/24 H01F27/29 H01F37/00 H02M3/1584 Y10T307/50 Y10T307/549

US: 307/43 307/52



Family:

Publication number	Publication date	Application number	Application date
CN104170227 A	20141126	CN201280071375	20120313
CN104170227 B	20170804	CN201280071375	20120313
IN08289DN2014 A	20150515	IN2014DN08289	20141006
JP2013136428 A1	20150803	JP20140504501T	20120313
JP5886939 B1	20160316	JP20140504501T	20120313
KR101616219 B1	20160427	KR20147019956	20120313
KR20140116117 A	20141001	KR20147019956	20120313
US2015022000 AA	20150122	US20120371092	20120313
US9824813 BB	20171121	US20120371092	20120313
WO13136428 A1	20130919	WO2012JP56367	20120313

Priority:

WO2012JP56367 20120313

Probable Assignee: TOSHIBA MITSUBISHI ELECTRIC INDUSTRIAL SYSTEMS CORP

Assignee(s): (std): KINOSHITA MASAHIRO ; TOSHIBA MITSUBISHI ELEC INC ; TOSHIBA MITSUBISHI ELECTRIC IN ; TOSHIBA MITSUBISHI ELECTRIC IND SYSTEMS CORP ; TOSHIBA MITSUBISHIT ELECTRIC IND SYSTEMS CORP

Assignee(s): TOSHIBA MITSUBISHI ELECTRIC INDUSTRIAL SYSTEMS CORP ; TOSHIBA MITSUBISHIT ELECTRIC INDUSTRIAL SYSTEMS CORP

Inventor(s): (std): KINOSHITA MASAHIRO

Agent(s): FUKAMI PATENT OFFICE PC; OBLON MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

54) Family number: 20109378 (GB738266A)

© PatBase

Title: Improvements in or relating to electromagnetic deflection arrangements for cathode ray tubes

Abstract: 738,266. Rectifying. STANDARD TELEPHONES and CABLES, Ltd. Sept. 21, 1951 [Sept. 23, 1950; Feb. 2, 1951], No. 22186/51. Class 38 (2). [Also in Groups XL (a) and XL (c)] Cathode-ray tube line-scanning coils L1... L4 and frame-scanning coils L6... L8 are mounted toroidally on a yoke 1, and are arranged so that the line coils are capable of feeding directly a voltage-doubling E.H.T. circuit without the intervention of a transformer. Pairs of coils such as L3, L4 are spaced 60 degrees apart and produce aiding fields, and opposite pairs such as L3, L4 and L1, L2 produce opposing fields. The frame.coils are connected in series, while the line coils are connected in series-parallel as shown; condenser C1 is for tuning the coils while condenser C2 is for removing unbalance, and undesirable coup. ling with the frame coils. The voltage doubling circuit comprises diodes D1, D2, reservoir condensers C3, C4 and limiting resistance R, the diode cathodes being heated by windings L9, L10 energized by the flux in yoke 1.

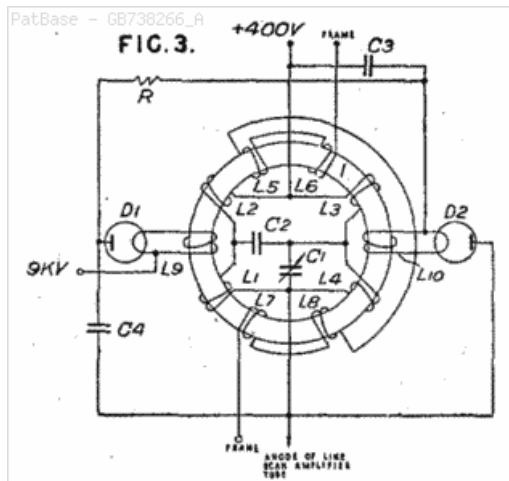
Classifications:

International (IPC 8-9): H01F38/42 H01J29/76 (Advanced/Invention); H01F38/00 H01J29/76 (Core/Invention)

International (IPC 1-7): H01J29/76

CPC: H01F38/42 H01J29/764

European: H01F38/42 H01J29/76D



Family:

Publication number	Publication date	Application number	Application date
GB738266 A	19551012	GB19510022186	19510921

Priority:

19500923

Probable Assignee: STANDARD TELEPHONES CABLES LTD

Assignee(s): (std): STANDARD TELEPHONES CABLES LTD

Assignee(s): STANDARD TELEPHONES AND CABLES LIMITED

55) Family number: 30413382 (US4963921A)

© PatBase

Title: DEVICE FOR HOLDING A MASK

Abstract: A device for detachably holding a mask at least a portion of which is made of a magnetic material. The device includes a holding member, on which the mask is to be held, the holding member having a portion made of a magnetic material; a first system for producing holding magnetic lines of force so as to generate a magnetic force between the magnetic portion of the holding member and the magnetic portion of the mask, to thereby hold the mask on the holding member; and a second system for producing releasing magnetic lines of force which are operative against the magnetic lines of force produced by the first system so as to reduce the same to a degree sufficient to disengage the mask from the holding member. Also, disclosed is a mask holding device for detachably holding a mask, typically for use in the manufacture of microcircuits, which device is arranged to hold the mask by use of a magnetically attracting force, the magnetically attracting force being made variably controllable so as to correct the flatness of the mask.

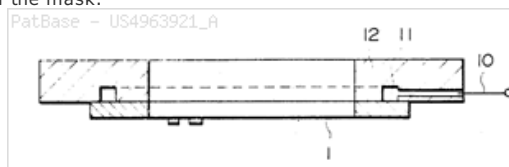
Classifications:

International (IPC 8-9): G03F1/00 G03F1/14 G03F1/22 G03F1/60 G03F1/66 G03F7/20 H01L21/027 H01L21/30 H01L21/673 (Advanced/Invention); G03F1/00 G03F1/14 G03F7/20 H01L21/02 H01L21/67 (Core/Invention)
International (IPC 1-7): G03B27/12 G03B27/42 G03D3/12 G03F1/00 G03F1/14 G03F7/20 G03F9/00 G03F9/02 G05D9/00 G12B5/00 H01F13/00 H01F7/06 H01L21/027 H01L21/30 H01L21/68

CPC: G03F1/22 G03F7/20 G03F7/707

European: G03F1/14K G03F1/22 G03F7/20 G03F7/20T24 G03F7/70N2

US: 269/8 355/53 355/74



Family:

Publication number	Publication date	Application number	Application date
DE3620970 A1	19870108	DE19863620970	19860623
DE3803738 A1	19880825	DE19883803738	19880208
DE3803738 C2	19921224	DE19883803738	19880208
FR2610740 A1	19880812	FR19880001455	19880208
FR2610740 B1	19950630	FR19880001455	19880208
GB2201258 A1	19880824	GB19880002217	19880202
GB2201258 B2	19910424	GB19880002217	19880202
GB8802217 A0	19880302	GB19880002217	19880202
JP2083281 C3	19960823	JP19870026456	19870209
JP61294441 A2	19861225	JP19850135942	19850624
JP61294442 A2	19861225	JP19850135943	19850624
JP61294443 A2	19861225	JP19850135944	19850624
JP62004755 U1	19870112	JP19850094416U	19850624
JP63194331 A2	19880811	JP19870026456	19870209
JP7101663 B4	19951101	JP19870026456	19870209
US4963921 A	19901016	US19890312761	19890221

Priority:

JP19850094416U 19850624 JP19850135942 19850624 JP19850135943 19850624
 JP19850135944 19850624 US19860875986 19860619 JP19870026456 19870209
 US19870140900 19871223 US19880151978 19880203

Probable Assignee: CANON INC

Assignee(s): (std): CANON KK

Assignee(s): CANON INC ; CANON K K ; CANON K K TOKIO TOKYO JP ; CANON KABUSHIKI KAISHA

Inventor(s): (std): HIDEHIKO FUJIOKA ; KARIYA TAKAO ; KARIYA TAKUO ; FUJIOKA HIDEHIKO

56) Family number: 10089382 (US5557165A)

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Title: Deflection yoke attachment arrangement

Abstract: A deflection yoke for a cathode ray tube includes a pair of saddle-shaped horizontal deflection coils, a pair of saddle-shaped vertical deflection coils separated from the horizontal deflection coils by a rigid separator. The separator is formed from a funnel-shaped main body and a removable rear ring. The rear ring has an arrangement for locking to the main body and partially covers the back of the vertical deflection coils. Arms are placed around an external periphery of the rear ring that extend towards a core made of magnetic material. The core is placed around the vertical coils. The arms hold the core in place.

Classifications:**International (IPC 8-9):** G11C16/00 G11C16/08 G11C16/12

H01J29/70 H01J29/76 H01J29/82 (Advanced/Invention);

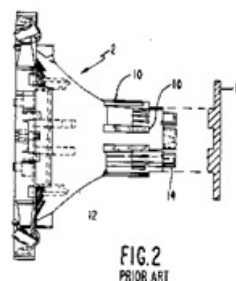
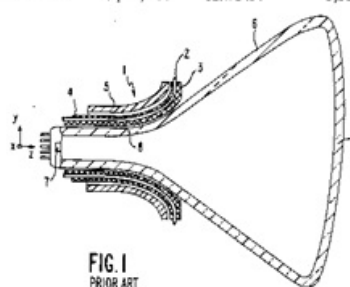
H01J29/70 (Advanced/Non-invention);

G11C16/00 G11C16/06 H01J29/76 H01J29/82 (Core/Invention)

International (IPC 1-7): H01J29/70 H01J29/76 H01J29/82 H04N3/16**CPC:** H01J29/762 H01J29/826**European:** H01J29/76B H01J29/82B2**US:** 313/440 335/210 335/213 348/829

PatBase - US5557165_R

U.S. Patent Sep. 17, 1996 Sheet 1 of 4 5,557,165

**Family:**

Publication number	Publication date	Application number	Application date
AT163107 E	19980215	AT19940401502T	19940701
CN1066284 C	20010523	CN19951007837	19950630
CN1119337 A	19960327	CN19951007837	19950630
DE69408443 D1	19980312	DE19946008443	19940701
DE69408443 T2	19980903	DE19946008443T	19940701
EP0690470 A1	19960103	EP19940401502	19940701
EP0690470 B1	19980204	EP19940401502	19940701
JP4009333 B2	20071114	JP19950167356	19950703
JP8050865 A2	19960220	JP19950167356	19950703
KR100374165 B1	20030426	KR19950017736	19950628
KR19960005724 A	19960223	KR19950017736	19950628
KR960005724 A	19960223	KR19950017736	19950628
PL176428 B1	19990531	PL19950309455	19950630
PL309455 A1	19960108	PL19950309455	19950630
SG34243 A1	19961206	SG19950000781	19950630
TW282553 B	19960801	TW19940108175	19940905
US5557165 A	19960917	US19950465025	19950605

Priority:

EP19940401502 19940701

Probable Assignee: THOMSON TUBES AND DISPLAYS SA**Assignee(s):** (std): THOMSON TUBES AND DISPLAYS

Assignee(s): THOMSON TUBES AND DISPLAYS LA DEFENSE SA ; THOMSON TUBES AND DISPLAYS S A ; THOMSON TUBES AND DISPLAYS SA ; THOMSON TUBES AND DISPLAYS S A PARIS FR ; THOMSON TUBES AND DISPLAYS SOCIETE ANONYME ; THOMSON TUBES DISPLAYS SA ; THOMAS TUBE AND DISPLAY CO ; THOMSON CHIYUUBUZU AND DEISUPUREIZU SA

Inventor(s): (std): DESCOMBES JEAN PHILIPPE ; DESCOMBES J P ; ARAN BUNI ; VOUGNY ALAIN ; VOUGNY A ; JIYANFUIRITSUPU DEKONBU

Inventor(s): VOUGNY ALAIN F 21000 DIJON FR ; A VOUGNY ; ALAIN VOUGNY ; J P DESCOMBES ; JEAN PHILIPPE DESCOMBES ; DESCOMBES JEAN PHILIPPE F 21110 PREMIERES FR

Designated states: AT BE CH DE FR GB LI

Title: CATHODE-RAY DEFLECTING MEANS

Abstract: 573,032. Cathode-ray tubes. BRITISH THOMSON-HOUSTON CO., Ltd. (General Electric Co.). Sept. 24, 1943, No. 15740. [Class 39 (i)] [Also in Group XXXV] A cathode-ray deflecting system comprises a rectangular ferromagnetic frame 21 having a first pair of coils 22 and 23 surrounding parallel legs and extending substantially the entire length thereof, and a second pair of coils 32 and 33 are provided on the remaining two legs of the frame abutting against the surfaces of the first pair of coils and having extra end turns 29 <1> and 30'. These extra turns have the effect of reducing distortion of the magnetic field over the area through which the scanning beam passes. The extra turns may be wound in one with the rest of its coil or may form a separate spool as shown. The coils are connected to have the polarities shown. The unit may be assembled from two L-shaped portions on which coils have been placed by staggering the ends of the laminations of each portion so that they may dovetail together.

Classifications:

International (IPC 8-9): H01J29/76 (Advanced/Invention);

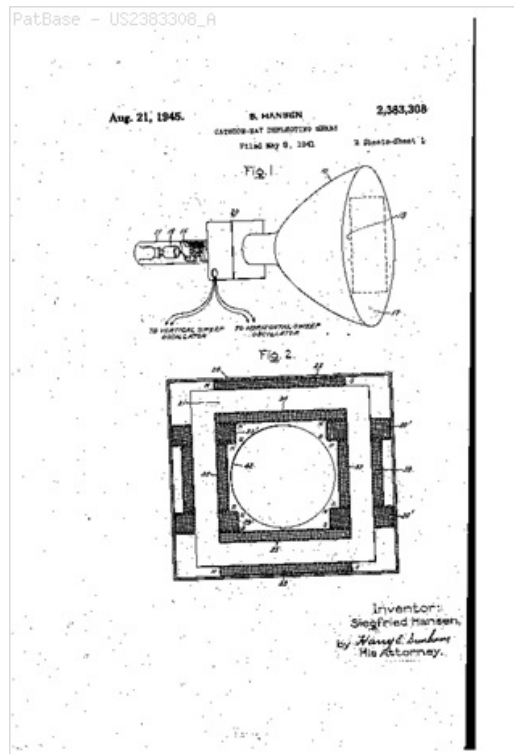
H01J29/76 (Core/Invention)

International (IPC 1-7): H01J29/76

CPC: H01J29/764

European: H01J29/76D

US: 335/213



Family:

Publication number	Publication date	Application number	Application date
FR942915 A	19490222		00000000
GB573032 A	19451102	GB19430015740	19430924
US2383308 A	19450821	US19410392503	19410508

Priority:

US19410392503 19410508

Probable Assignee: GEN ELECTRIC

Assignee(s): (std): BRITISH THOMSON HOUSTON CO LTD ; GEN ELECTRIC ; THOMSON HOUSTON COMP FRANCAISE

Assignee(s): THE BRITISH THOMSON HOUSTON COMPANY LIMITED ; GENERAL ELECTRIC CO ; GENERAL ELECTRIC COMPANY ; COMPAGNIE FRANCAISE THOMSON HOUSTON

Inventor(s): (std): SIEGFRIED HANSEN

Inventor(s): HANSEN SIEGFRIED

Title: Stepper motor

Abstract: A stepper motor includes a cylindrical rotor, a plurality of stators, a plurality of yokes, and a plurality of coils. The cylindrical rotor is made of a permanent magnet which has been magnetized radially. The rotor has two magnetized layers formed in an axial direction thereof. Each of the stators has a plurality of magnetic pole portions which are disposed such that they oppose an outer periphery of the rotor. The magnetic pole portions of the stators oppose one of the magnetized layers of the rotor. The plurality of yokes are made of a permeable material. The yokes are separated from the stators in the axial direction of the rotor. The end portions of the yokes oppose the other magnetized layer of the rotor. The plurality of yokes are shifted from the stators by a predetermined angle. The plurality of coils are disposed such that each coil excites a corresponding stator. By this arrangement, the diameter of the lens barrel of a camera containing such a stepping motor can be reduced and the output and efficiency of the stepper motor can be improved.

Classifications:

International (IPC 8-9): G02B7/04 G03B17/00 H02K37/14

H02K37/16 (Advanced/Invention);

G02B7/04 G03B17/00 H02K37/12 (Core/Invention)

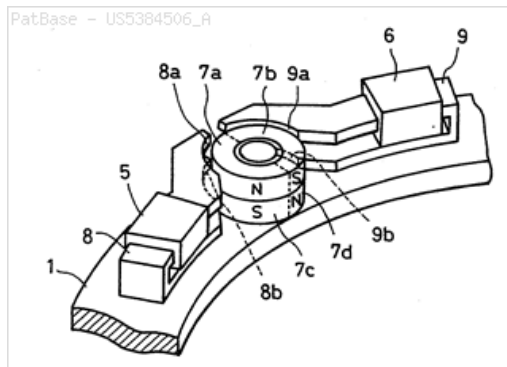
International (IPC 1-7): G02B7/04 G03B17/00 H02K37/12

H02K37/14 H02K37/16

CPC: H02K37/14

European: H02K37/14

US: 310/162 310/49.05 310/49.11 310/49.51 310/49R

**Family:**

Publication number	Publication date	Application number	Application date
JP3153341 B2	20010409	JP19920163740	19920529
JP5336729 A2	19931217	JP19920163740	19920529
JP6250070 A2	19940909	JP19930057927	19930223
US5384506 A	19950124	US19930067043	19930525

Priority:

JP19920163740 19920529 JP19930057927 19930223

Probable Assignee: CANON INC

Assignee(s): (std): CANON KK

Assignee(s): CANON INC ; CANON KABUSHIKI KAISHA

Inventor(s): (std): AOSHIMA TSUTOMU ; AOSHIMA CHIKARA

59) Family number: 489414 (DE2022416A1)

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Title: ANORDNUNG ZUR SCHNELLEN VERAENDERUNG DES INDUKTIVEN WIDERSTANDES VON DROSSELSPULEN UND TRANSFORMATOREN ARRANGEMENT FOR RAPID MODIFICATION OF INDUCTIVE RESISTANCE OF REACTORS AND TRANSFORMERS (Machine translation)

Abstract: Source: DE2022416A1 [DE] (Claim 1) Patent-Ansprueche 01.)AnordDung zur schnellen Veraenderung des induktiven Widerstandes von Drossel spulen und Transformatoren durch Eingriff in den magnetischen kreis dadurch gekennzeichnet, dass die mehrfach laengs geteilten Schenkelpole (siehe Beilagezeich nung) dieser Drossel aus zwei oder mehreren eisengeschios- senen Teilkernen (2 in Figur 2) derart aufgebaut sind, dass der Hauptfluss die Schenkel der einzelnen Teilkerne in glei cher Richtrng laengs des Schenkelpols durchstroemt und iiber die Joche und die anderen Schenkelpole zurueckfliesst, der Er regerfluss dagegen in den Teilkernen einen.eisengeschlossenen magnetischen Kreis findet. 2.

Machine translation: (Claim 1) Coils 01 patent claims) AnordDung for rapid change in the inductive resistance of the choke and marked transformers by intervening in the magnetic circuit by the fact that the multiple slit leg poles (see attached drawings) of this choke from two or more eisengeschios-Senen part cores (2 in figure 2) so constructed is that the main flow of the legs of the individual sub-cores in the same Cher Richtrng along flows through the salient pole and flows back via the yokes and the other leg Pole, he finds brisk flow of contrast in the sub-cores einen.eisengeschlossenen magnetic circuit. Second

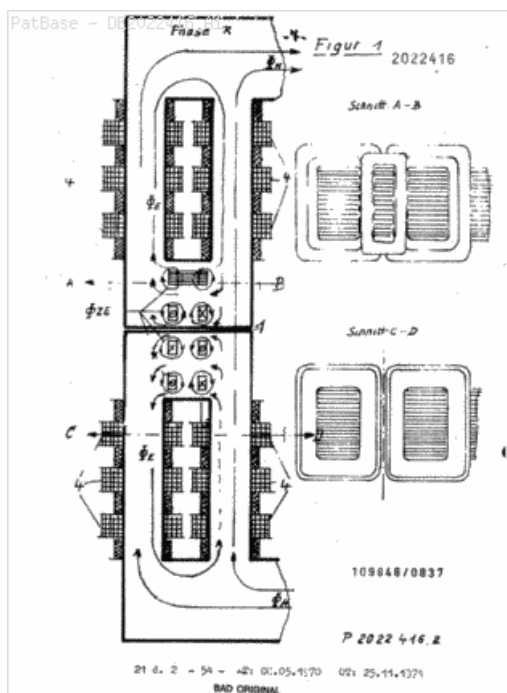
Classifications:

International (ipc 8-9): H01F29/14 (Advanced/Invention); H01F29/00 (Core/Invention)

International (ipc 1-7): H01F21/08

CPC: H01F29/146

European: H01F29/14B

**Family:**

Publication number	Publication date	Application number	Application date
DE2022416 A1	19711125	DE19702022416	19700508

Priority:

DE19702022416 19700508

Probable Assignee: DELTZ ERNST DIPL ING
Assignee(s): (std): DELTZ ERNST DIPL ING
Assignee(s): DELTZ E
Inventor(s): (std): DELTZ ERNST DIPL ING

60) Family number: 23533414 (JP2002188938A)

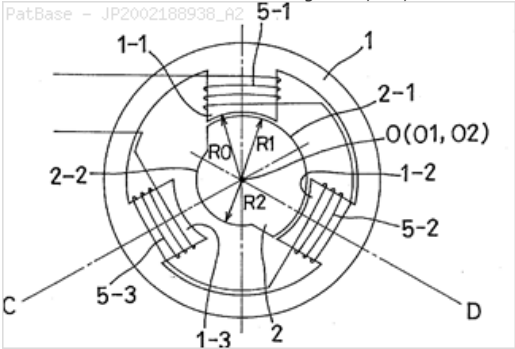
© PatBase

Title: ROTATION ANGLE DETECTOR

Abstract: PROBLEM TO BE SOLVED: To provide a non-contact type rotation angle detector having a simple structure, low electricity consumption, and excellent durability. SOLUTION: Salient poles 1-1, 1-2, and 1-3 are provided on a stator 1. Coils 5-1, 5-2, and 5-3 are wound on the salient poles 1-1, 1-2, and 1-3, respectively. A constant-voltage alternating-current power supply is connected across a series- connected circuit of the coils 5-1, 5-2, and 5-3. A rotor 2 is disposed in a middle part of the stator 1. The rotor 2 has an outer circumferential surface 2-1 having a radius R1 and another outer circumferential surface 2-2 having a radius R2 ($R2 < R1$). Yokes are provided on upper and lower surfaces of the stator 1. When the rotor 2 rotates, reluctance of magnetic paths between the salient poles 1-1, 1-2, and 1-3, and the rotor 2 changes to change the inductance of the coils 5-1, 5-2, and 5-3, thereby changing voltages V1, V2, and V3 across the coils 5-1, 5-2, and 5-3, respectively. The rotation angle of the rotor 2 is detected based on a combination of the voltages V1, V2, and V3.

Classifications:

International (IPC 8-9): G01B7/00 G01B7/30
G01D5/245 (Advanced/Invention)
International (IPC 1-7): G01B7/30 G01D5/245



Family:

Publication number	Publication date	Application number	Application date
JP2002188938 A2	20020705	JP20000388511	20001221
JP4523147 B2	20100811	JP20000388511	20001221

Priority:

JP20000388511 20001221

Probable Assignee: M SYST GIKEN KK
Assignee(s): (std): M SYST GIKEN KK
Inventor(s): (std): MURACHI HIROSHI

61) Family number: 34115415 (US2009224628A)

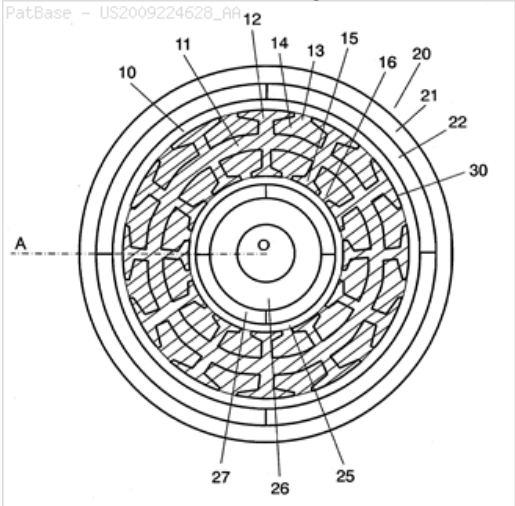
© PatBase

Title: TWIN ROTOR TYPE MOTOR

Abstract: A stator of a twin rotor motor includes: an annular yoke; a plurality of outer teeth and outer slots provided on an outer circumference of the yoke; a plurality of inner teeth and inner slots provided on an inner circumference of the yoke; and a plurality of toroidally-wound coils on the yoke. A rotor of the twin rotor motor includes: an outer rotor provided with an outer permanent magnet facing the outer teeth; and an inner rotor provided with an inner permanent magnet facing the inner teeth. Furthermore, the stator is provided with a resin mold that seals the coils and has a mounting-tab.

Classifications:

International (IPC 8-9): H02K1/04 H02K1/06 H02K1/18 H02K16/02
H02K21/12 H02K21/14 H02K21/22 H02K3/44
H02K5/08 (Advanced/Invention);
H02K1/06 H02K16/02 H02K21/12 H02K3/44 (Advanced/Non-invention);
H02K1/06 H02K1/18 H02K16/00 H02K21/12 H02K21/22 H02K3/00
H02K5/08 (Core/Invention)
CPC: H02K5/08 H02K21/22 H02K16/02 H02K21/12
European: H02K16/02 H02K21/12 H02K5/08 T02K21/22
US: 310/216.113 310/216.113P



Family:

Publication number	Publication date	Application number	Application date
CN101199099 A	20080611	CN200680021917	20060213
CN101199099 B	20111130	CN200680021917	20060213
EP1892814 A1	20080227	EP20060713606	20060213
EP1892814 A4	20160914	EP20060713606	20060213
JP2007010640 A1	20090129	JP20070525507T	20060213
JP2012075318 A2	20120412	JP20110267943	20111207
KR100901588 B1	20090608	KR20077026990	20060213
KR20080000666 A	20080102	KR20077026990	20060213
US2009224628 AA	20090910	US20060916684	20060213
WO07010640 A1	20070125	WO2006JP302464	20060213

Priority:

JP20050209735	20050720	JP20070525507	20060213	WO2006JP02464	20060213
WO2006JP302464	20060213	WO2006JP302464	20071120	JP20110267943	20111207

Probable Assignee: PANASONIC CORP**Assignee(s):** (std): HIWAKI HIDEHARU ; KOSHIBA ATSUYOSHI ; MATSUSHITA ELECTRIC IND CO LTD ; MURAKAMI HIROSHI ; PANASONIC CORP**Assignee(s):** MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; MATSUSHITA ELECTRIC IND CO**Inventor(s):** (std): MURAKAMI HIROSHI ; HIWAKI HIDEHARU ; KOSHIBA ATSUYOSHI ; HIWAKI EIJI ; HIDEHARU HIWAKI ; ATSUYOSHI KOSHIBA ; HIROSHI MURAKAMI**Agent(s):** GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER ANWALTSSOZIETAET; NAITO HIROKI; WENDEROTH LIND AND PONACK LLP**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW**62) Family number: 564416 (US3681599A)**

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Title: SECTOR-TYPE CHARGED PARTICLE ENERGY ANALYZER

Abstract: A sector-type charged particle energy analyzer has a pair of mutually confronting sector-type magnetic poles and an incident opening through which charged particles to be analyzed are projected to the inner part of the analyzer from its outer part formed in the gap between the magnetic poles. The outer energizing coil is wound, within a gap between the pair of magnet poles, flatly expanded in a direction perpendicular to the symmetrical plane of the magnetic poles so as to render uniform the distribution of the magnetic field in the gap between the magnet poles, and, at the same time, this outer energizing coil is divided into upper and lower parts at the position of the incident opening to render it possible to increase as much as feasible the incident angle of the charged particles projected into the inner part of the analyzer thereby increasing the analytical performance of the charged particle analyzer.

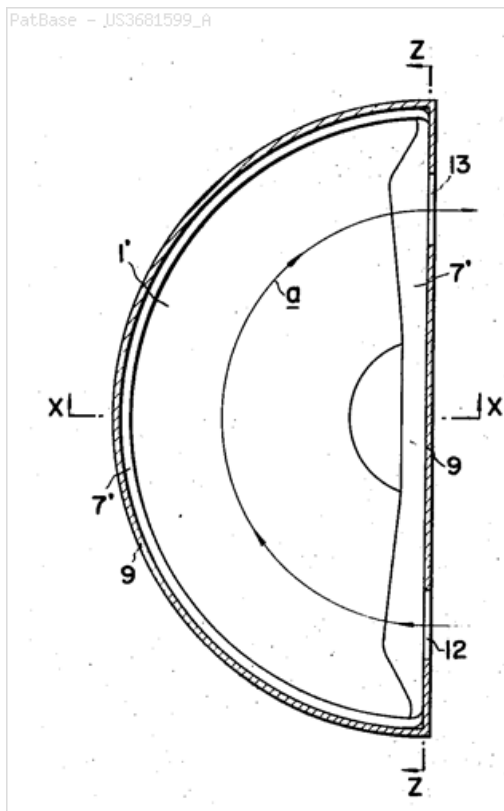
Classifications:**International (IPC 8-9):** H01J49/20 H01J49/30

H01J49/46 (Advanced/Invention);

H01J49/00 H01J49/02 H01J49/26 (Core/Invention)

International (IPC 1-7): H01J3/00 H01J39/34 H01J49/30**CPC:** H01J49/20 H01J49/30 H01J49/46**European:** H01J49/20 H01J49/30 H01J49/46**US:** 250/299 250/419ME 335/210

PatBase - US3681599_A

**Family:**

Publication number	Publication date	Application number	Application date
DE1498830 A1	19721109	DE19631498830	19630411
DE1498830 B2	19740411	DE19631498830	19630411
DE1498830 C3	19741128	DE19631498830	19630411

GB1029067 A	19660511	GB19630012386	19630328
US3681599 A	19720801	US19690868646	19691022

Priority:

JP19620014487 19620416

Probable Assignee: HIDEITSUGU IKEGAMI

Assignee(s): (std): HIDEITSUGU IKEGAMI ; HIDEITSUGU Ikegani ; HISASHI YAMAMOTO ; HITACHI LTD ; IKEGAMI HIDEITSUGU ; KENJI TAKUMI

Assignee(s): K K HITACHI SEISAKUSHO ; KABUSHIKI KAISHA HITACHI SEISAKUSHO ; HITACHI SEISAKUSHO KK

Inventor(s): (std): IKEGAMI HIDEITSUGU ; IKEGAMI HIDEITSUGU ; TAKUMI KENJI ; YAMAMOTO HISASHI

Inventor(s): YAMAMOTO HISASHI MUSASHINO ; TAKUMI KENJI MACHIDA ; KENJI TAKUMI ; IKEGAMI HIDEITSUGU TOKIO ; HIDEITSUGU IKEGAMI ; HISASHI YAMAMOTO

63) Family number: 31779417 (US2005067910A)

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Title: BOBBINLESS HIGH-DENSITY ARMATURE HAVING NO SUBSTRATE, AND ROTOR USING THE SAME

Abstract: A miniaturized rotor is provided for improving the efficiency of an engine by using a bobbinless high-density armature without using a substrate which interferes with magnetic force.

Classifications:

International (IPC 8-9): H02K17/00 H02K21/24 H02K3/04

H02K3/47 (Advanced/Invention);

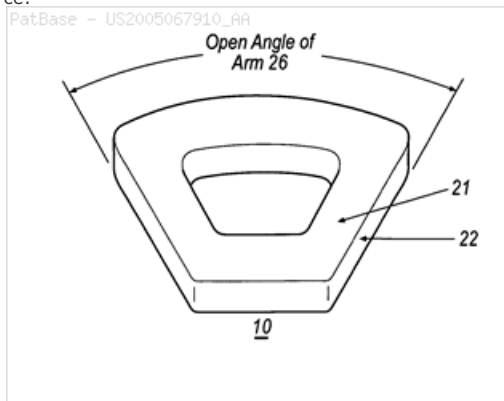
H02K17/00 H02K21/12 H02K3/04 H02K3/46 (Core/Invention)

International (IPC 1-7): H02K17/00 H02K21/12 H02K21/24 H02K3/04

CPC: H02K3/47 H02K21/24

European: H02K21/24 H02K3/47

US: 310/156.34 310/207 310/208 310/268



Family:

Publication number	Publication date	Application number	Application date
JP2005110398 A2	20050421	JP20030339870	20030930
US2005067910 AA	20050331	US20040936567	20040909
US7045924 BB	20060516	US20040936567	20040909

Priority:

JP20030339870 20030930 US20040936567 20040909

Probable Assignee: OKAYAMA GIKEN CO LTD

Assignee(s): (std): OKAYAMA GIKEN CO LTD ; OKAYAMA GIKEN KK ; OKURA NORIYOSHI

Inventor(s): (std): OKURA NORIYOSHI

Agent(s): RADER FISHMAN AND GRAUER PLLC

64) Family number: 22278434 (US2002050760A)

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Title: BRUSHLESS MOTOR

Abstract: To provide a brushless motor which can be miniaturized, and achieve better magnetic efficiency and produce higher torque output than a coreless motor. The brushless motor is characterized in that stators are formed into flat shapes, in which ends of teeth of the stators are formed into arc surfaces along a rim of a rotor and teeth-winding parts are formed in parallel with each other.

Classifications:

International (IPC 8-9): H02K1/14 H02K1/18 H02K21/14 H02K29/00

H02K3/48 H02K5/15 (Advanced/Invention);

H02K1/14 H02K1/18 H02K21/14 H02K29/00 H02K3/48

H02K5/15 (Core/Invention)

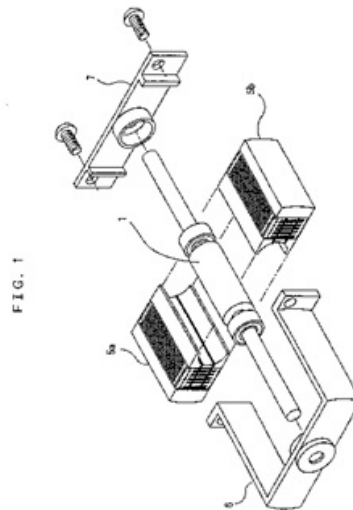
International (IPC 1-7): H02K1/06 H02K1/12 H02K1/14 H02K1/18

H02K1/22 H02K21/14 H02K29/00 H02K3/48 H02K37/00 H02K5/15

CPC: H02K1/14 H02K5/15 H02K21/14

European: H02K1/14 H02K21/14 H02K5/15

US: 310/156.01 310/254 310/254.1

**Family:**

Publication number	Publication date	Application number	Application date
CN1351402 A	20020529	CN20011037754	20011030
EP1202430 A1	20020502	EP20010124545	20011012
JP2002136090 A2	20020510	JP20000329742	20001030
US2002050760 AA	20020502	US20010969099	20011003

Priority:

JP20000329742 20001030

Probable Assignee: MATSUSHITA ELECTRIC INDUSTRIAL CO LTD**Assignee(s):** (std): MATSUSHITA ELECTRIC INC CO LTD ; MATSUSHITA ELECTRIC IND CO LTD**Assignee(s):** MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; PANASONIC CORP**Inventor(s):** (std): KINASHI KOICHI ; KINASHI YOSHIKAZU ; KOICHI KINASHI ; SADANAGA YUICHIRO ; TOSHIO YAMAMOTO ; YAMAMOTO TOSHIO ; YUICHIRO SADAIE ; SADAIE YUICHIRO**Designated states:** DE GB**65) Family number: 2773435 (US5214365A)**

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Title: THREE-PHASE RELUCTANCE TYPE ELECTRIC MOTOR

Abstract: PCT No. PCT/JP90/01188 Sec. 371 Date Apr. 30, 1991 Sec. 102(e) Date Apr. 30, 1991 PCT Filed Sep. 17, 1990 PCT Pub. No. WO91/04602 PCT Pub. Date Apr. 4, 1991. A three-phase reluctance type electric motor wherein a magnetic attraction force acts on a rotor in one direction and is not cancelled, thereby reducing mechanical vibration. Since the number of magnetic poles and salient poles is small, a small electric motor of small output power can be obtained. Reduction in the service life of the motor due to the magnetic attraction force acting on the bearings can be prevented by disposing three motors in the same casing. This causes the magnetic attraction force in a radial direction due to the central motor and the magnetic attraction forces in a radial direction due to the two outer motors to act in opposite directions and thus provides balance and maintains a preset attraction force. Every two of the magnetic poles of each phase define a N and S pole pair and a motor of high output torque and high efficiency can be obtained. A reverse current prevention diode is connected in a forward direction of a DC power source so that stored magnetic energy on an excitation coil can be prevented from being fed back to the DC power source when energization of the excitation coil is interrupted, and so that the magnetic energy is caused to flow into an excitation coil to be next energized. Therefore, the excitation current falls and rises rapidly so that generation of counter torque and reduced torque can be suppressed, thereby providing a motor of high efficiency.

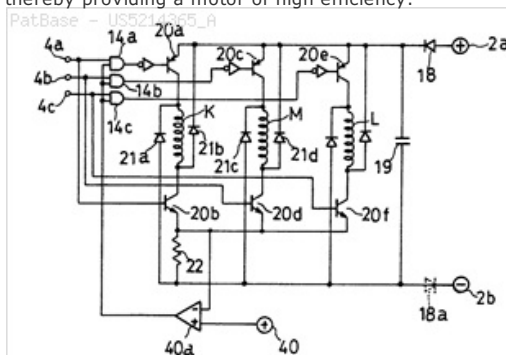
Classifications:

International (IPC 8-9): H02K19/10 H02K29/00 H02K29/06
H02K7/09 H02P25/08 H02P6/16 (Advanced/Invention);
H02K19/02 H02K29/00 H02K29/06 H02K7/09 H02P25/02
H02P6/14 (Core/Invention)

International (IPC 1-7): H02K16/00 H02K19/10 H02K29/06
H02K7/09 H02P6/02 H02P7/00

CPC: H02K29/06 H02K7/09 H02K19/103 H02P25/089

European: H02K19/10B H02K29/00 H02K29/06 H02K7/09
H02P25/08A

US: 318/254 318/400.2 318/701**Family:**

Publication number	Publication date	Application number	Application date
DE69012546 D1	19941020	DE19906012546	19900917
DE69012546 T2	19950112	DE19906012546T	19900917
EP0444203 A1	19910904	EP19900913536	19900917
EP0444203 A4	19920318	EP19900913536	19900917
EP0444203 B1	19940914	EP19900913536	19900917
JP3103091 A2	19910430	JP19890240184	19890918
US5214365 A	19930525	US19910679019	19910430
WO9104602 A1	19910404	WO1990JP01188	19900917

Priority:

JP19890240184 19890918 WO1990JP01188 19900917

Probable Assignee: KABUSHIKIGAISHA SEKOGIKEN

Assignee(s): (std): SECOH GIKEN KK ; SECOH GIKEN KK

Assignee(s): SEKOGIKEN TOKIO TOKYO JP KK ; KABUSHIKI KAISHA SEKOGIKEN TOKIO TOKYO JP ; KABUSHIKIGAISHA SEKOGIKEN ; KABUSHIKIGAISHA SEKOGIKEN A CORP ; KABUSHIKIGAISHA SEKOGIKEN ; SECOH GIKEN INC

Inventor(s): (std): BAN ITSUKI ; BAHN ITSUKI

Inventor(s): BAHN ITSUKI TOKYO 177 JP

Designated states: AT BE CH DE DK ES FR GB IT LU NL SE US

66) Family number: 14928440 (US6157595A)

© PatBase

Title: Magneto-optical disk loading device

Abstract: In an optical disk device of the present invention, a spindle motor is separated into (1) a first motor unit composed of a bearing member, a bearing support for supporting the bearing member, and a turn table fixed to a rotor magnet and (2) a second motor unit provided with a first stator coil. During a cartridge loading operation, after the first motor unit is moved towards an optical disk, the second motor unit is slidably moved to a space created by the movement of the first motor unit so as to be rotatably driven as a spindle motor, thus realizing a thinner spindle motor.

Classifications:

International (IPC 8-9): G11B11/10 G11B11/105 G11B17/028 G11B17/04 G11B19/02 G11B19/20 G11B21/02

G11B5/02 (Advanced/Invention);

G11B11/00 G11B17/028 G11B17/04 G11B19/02 G11B19/20

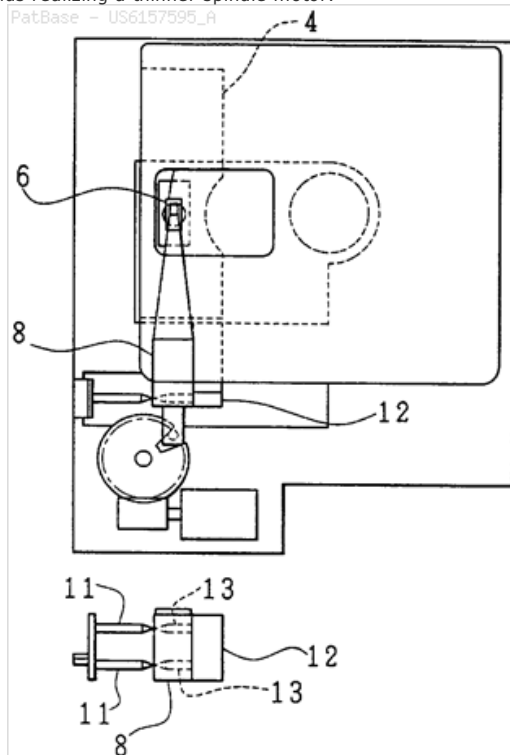
G11B21/02 G11B5/02 (Core/Invention)

International (IPC 1-7): G11B11/00 G11B11/10 G11B11/105 G11B19/02 G11B19/20 G11B21/02 G11B5/02

CPC: G11B11/10558 G11B11/10573 G11B17/0282 G11B17/0288 G11B17/043 G11B19/2009

European: G11B11/105G2B G11B11/105G2K G11B17/028D G11B17/028G G11B17/043 G11B19/20A

US: 369/13 369/13.21 G9B/11.036 G9B/11.043 G9B/17.006 G9B/19.028



Family:

Publication number	Publication date	Application number	Application date
JP10241272 A2	19980911	JP19970043184	19970227
JP11213472 A2	19990806	JP19980019952	19980130
JP11213582 A2	19990806	JP19980019932	19980130
JP3348005 B2	20021120	JP19980019952	19980130
JP3386973 B2	20030317	JP19970043184	19970227
JP3435048 B2	20030811	JP19980019932	19980130
US6157595 A	20001205	US19980031931	19980227

Priority:

JP19970043184 19970227 JP19980019932 19980130 JP19980019952 19980130

Probable Assignee: SHARP KK

Assignee(s): (std): SHARP KK

Assignee(s): SHARP CORP ; SHARP KABUSHIKI KAISHA

Inventor(s): (std): TANAKA TOSHIYUKI ; UEDA KAZUHIKO

Agent(s): HARA KENZO

Title: TORQUE SENSOR

Abstract: A torque sensor provides a specific property for a shaft member so as to improve sensitivity and so as to minimize hysteresis in measurement of the torque exerted thereon. The shaft member is provided specific composition achieving the desired level of sensitivity without increasing the hysteresis. In the alternative, the shaft member is processed in order to provide the desired property.

Classifications:

International (ipc 8-9): C21D6/00 C21D9/00 C22C38/00 G01L3/10 H01L41/12 H01L41/20 (Advanced/Invention); C21D6/00 C21D9/00 C22C38/00 G01L3/10 H01L41/00 H01L41/16 (Core/Invention)

International (ipc 1-7): C21D6/00 C21D9/00 C22C38/00 G01L3/10 H01L41/12 H01L41/20

CPC: G01L3/102 G01L3/103 G01L3/105

European: G01L3/10A2

US: 73/862.333 73/862.36

PatBase - US5107711_A

U.S. Patent

Apr. 28, 1992

Sheet 1 of 4

5,107,711

FIG. 1

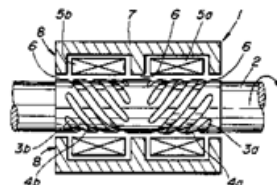
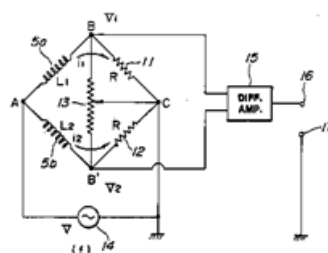


FIG. 2



Family:

Publication number	Publication date	Application number	Application date
DE68918978 D1	19941201	DE19896018978	19890306
DE68918978 T2	19950302	DE19896018978T	19890306
EP0338227 A2	19891025	EP19890103924	19890306
EP0338227 A3	19910626	EP19890103924	19890306
EP0338227 B1	19941026	EP19890103924	19890306
JP1225181 A2	19890908	JP19880050820	19880304
JP1225182 A2	19890908	JP19880050819	19880304
JP1236665 A2	19890921	JP19880061768	19880317
JP1247530 A2	19891003	JP19880074822	19880330
JP1257231 A2	19891013	JP19880084022	19880407
JP2592491 B2	19970319	JP19880074822	19880330
JP2697842 B2	19980114	JP19880061768	19880317
JP2697846 B2	19980114	JP19880084022	19880407
US5107711 A	19920428	US19890319351	19890306

Priority:

JP19880050819 19880304 JP19880050820 19880304 JP19880061768 19880317
JP19880074822 19880330 JP19880084022 19880407

Probable Assignee: NISSAN MOTOR CO

Assignee(s): (std): DAIDO STEEL CO LTD ; NISSAN MOTOR ; DAIDOTOKUSHUKO KABUSHIKIGAISHA

Assignee(s): DAIDOTOKUSHUKO KABUSHIKIKAISHA ; NISSAN MOTOR COMPANY LIMITED ; NITSUSAN JIDOSHA KK ; NISSAN MOTOR CO LTD YOKOHAMA KANAGAWA JP ; NISSAN MOTOR CO ; NISSAN MOTOR CO LTD ; DAIDO TOKUSHUKO K K NAGOYA AICHI JP ; DAIDO TOKUSHUKO KABUSHIKI KAISHA ; DAIDO TOKUSHUKO KK

Inventor(s): (std): AOKI HIROYUKI ; SAITO TAKANOBU ; SAITOU TAKANOBU ; YADO SHINICHIRO ; YAHAGI SHINICHIRO

Inventor(s): YADO SHINICHIRO OHBU SHI AICHI KEN JP ; SAITO TAKANOBU OKAZAKI SHI AICHI KEN JP ; AOKI HIROYUKI YOKOHAMA SHI KANAGAWA KEN JP

Designated states: DE FR GB

Title: Moving coil type phono cartridge

Abstract: An MC type phono cartridge which is simple in construction and easy to assemble and in which the stylus tip may be easily interchanged. The cartridge includes a pair of magnet units and an associated vibration unit. Included in the vibration unit is a cantilever with a stylus tip fixed to one end thereof with a disc-like member fixed to the other end of the cantilever. A string is attached at one end to the cantilever and at the other end to a string member holder which is in turn attached to the supporting member. A damper is disposed between a disc-like member and the supporting member. A pair of

induction coils are disposed on the disc-like member. Each of the two magnet units includes a pair of adjacent magnets disposed with like magnetic poles confronting each other with the confronting portions of the magnets spaced from the induction coil at a preset gap. The vibration unit is detachable from the magnet unit for ease of stylus tip interchange.

Classifications:

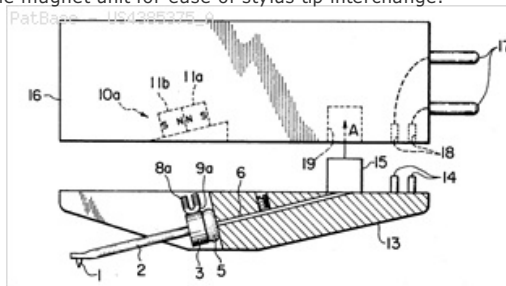
International (IPC 8-9): H04R9/12 H04R9/16 (Advanced/Invention);
H04R9/00 (Core/Invention)

International (IPC 1-7): G11B3/30 G11B3/44 H04R9/12 H04R9/16

CPC: H04R9/16

European: H04R9/16

US: 369/139 369/147 369/172



Family:

Publication number	Publication date	Application number	Application date
DE3002899 A1	19801218	DE19803002899	19800128
DE3002899 C2	19821230	DE19803002899	19800128
GB2043395 A1	19801001	GB19800002629	19800125
GB2043395 B2	19830106	GB19800002629	19800125
JP1193529 C3	19840312	JP19790009064	19790131
JP1193530 C3	19840312	JP19790009066	19790131
JP1193535 C3	19840312	JP19790028205	19790313
JP1262037 C3	19850425	JP19790010643	19790131
JP55102997 A2	19800806	JP19790009064	19790131
JP55102998 A2	19800806	JP19790009066	19790131
JP55102999 A2	19800806	JP19790010643	19790131
JP55121796 A2	19800919	JP19790028205	19790313
JP58020197 B4	19830421	JP19790009064	19790131
JP58020198 B4	19830421	JP19790009066	19790131
JP58020199 B4	19830421	JP19790010643	19790131
JP58020200 B4	19830421	JP19790028205	19790313
JP59131298 A2	19840728	JP19830249150	19831226
US4385375 A	19830524	US19800115315	19800125

Priority:

JP19790009064 19790131 JP19790009066 19790131 JP19790010643 19790131
JP19790028205 19790313 JP19830249150 19831226

Probable Assignee: PIONEER ELECTRONIC CORP

Assignee(s): (std): PIONEER ELECTRONIC CORP

Assignee(s): PIONEER ELECTRONIC CORP TOKYO JP ; PIONEER KK

Inventor(s): (std): OKURA KENICHI ; OKURA KENITI ; OOKURA KENICHI ; YASUDA SHINJI

Inventor(s): YASUSA SHINJI TOKOROZAWA SAITAMA JP

69) Family number: 10060460 (JP1037763A)

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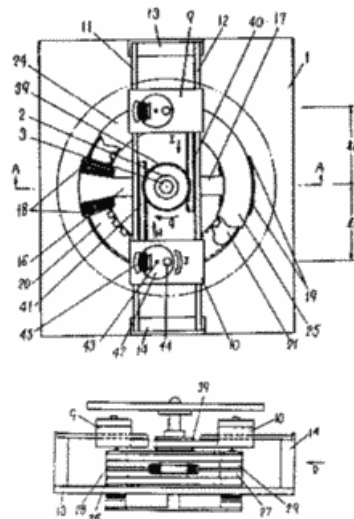
Title: OPTICAL DISK DRIVING DEVICE

Abstract: PURPOSE: To miniaturize the titled device by providing a yoke plate along a circle centering the rotary shaft of an optical disk, holding a turning member freely rotatably on a same shaft as the optical disk, and providing a coil at an outer end to interlink a magnetic field generated in the yoke plate. CONSTITUTION: Optical units 9 and 10 are movably held on the rotational center line of an optical disk, the yoke plates 20, 24 and 25 along the circle concentric to the rotary shaft of the optical disk in a frame 1 and magnetic field means 26W29 to magnetize the yoke plates are equipped, held freely rotatably on a same shaft as the optical disk in the frame 1, coils 18 and 19 to interlink the yoke plates are held, a turning member 42 equipped with a gear 39 to transmit a power for moving to the optical units 9 and 10 are provided. The relation of the rotational angle of the turning member 42 and the moving stroke of the optical units 9 and 10 are decided by the diameter of the gear 39, the moving stroke of a magnetic sensor of the outer end of the turning member 42 and be largely obtained for the moving stroke of the optical units 9 and 10. Thus, the device can be miniaturized.

Classifications:

International (IPC 8-9): G11B19/06 G11B19/20 (Advanced/Invention);
G11B19/06 G11B19/20 (Core/Invention)

International (IPC 1-7): G11B19/06 G11B19/20

**Family:**

Publication number	Publication date	Application number	Application date
JP1037763 A2	19890208	JP19870192955	19870731
JP64037763 A2	19890208	JP19870192955	19870731

Priority:

JP19870192955 19870731

Probable Assignee: MATSUSHITA ELECTRIC IND CO LTD**Assignee(s):** (std): MATSUSHITA ELECTRIC IND CO LTD**Inventor(s):** (std): SHIRAISHI HAJIME**70) Family number: 37006468** (GB191128007A)

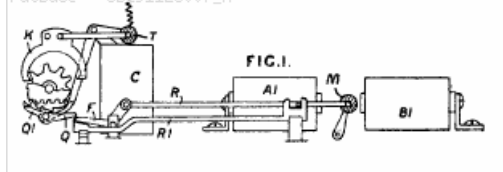
© PatBase

Title: Improvements in the Enumeration of Telephone Calls.

Abstract: 28,007. Williams, S. D. Dec. 13. Counters actuated by electric means over throw - preventing mechanism. - Relates to improvements in the telephone - call en umerator described in Specification 25,700/10, in which the spindle of the actuating ratchetwheel carries a starwheel which is engaged by an anchor K connected to the armature T of a magnet C. In the prior Specification, the tail Q of the pawl Q1 can be tripped by a lever F, controlled by the magnets A1, B1, so as to prevent the counter being actuated when the magnet C is energized. In order to prevent current through the magnets A1, C actuating the counter, owing to the magnet A1 releasing the pawl before the magnet C has attracted its armature, a sliding-rod R1 co-operating with the tail of the pawl is connected by a pin-and-slot connexion to the rod R. In another modification, the magnet C has two operative poles, the one controlling the counter escapement, and the other the position of the armature M and pawl Q1. In a further modification, the restraining- spring of the armature T is omitted, the armature being returned to normal by a projection on the rod R or by a lever operated by a pin on the rod R.

Classifications:

PatBase - GB191128007_A

**Family:**

Publication number	Publication date	Application number	Application date
GB191128007 A	19130113		00000000

Priority:

19111213

Probable Assignee: WILLIAMS SAMUEL DICKINSON**Assignee(s):** (std): WILLIAMS SAMUEL DICKINSON**Assignee(s):** SAMUEL DICKINSON WILLIAMS**Inventor(s):** (std): WILLIAMS SAMUEL DICKINSON**Inventor(s):** SAMUEL DICKINSON WILLIAMS**71) Family number: 22632475** (US3034343A)

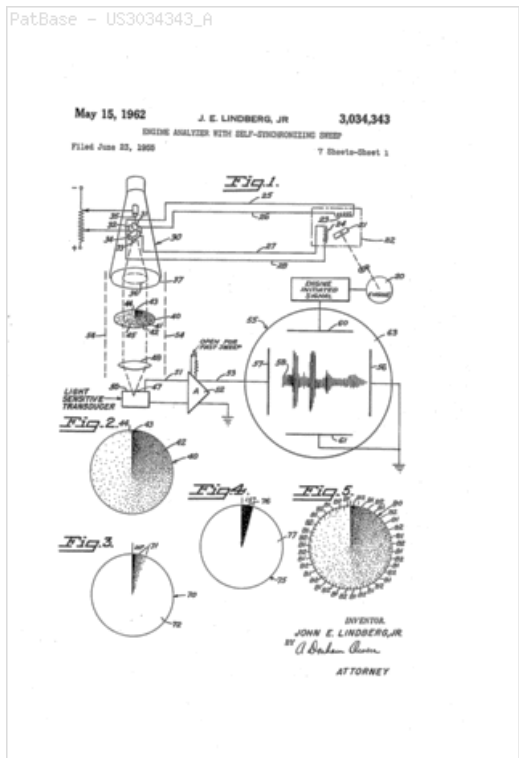
© PatBase

Title: ENGINE ANALYZER WITH SELF-SYNCHRONIZING SWEEP

Abstract: (Claim 1) 1. In an engine analyzer, a first cathode-ray tube, electron-operated means to generate in said tube a circular cathode-ray sweep in cycle with the engine that generates it; means for transforming the electron beam in said circular sweep into a light beam moving in a circle; means to change the intensity of the light during each cycle according to the angular position of the light beam in its circular path; means, responsive to said change in light intensity, to correspondingly vary an electrical signal; and means to impress said electrical signal upon the sweep plates of an engine analyzer cathode-ray tube.

Classifications:

International (IPC 8-9): F02P17/02 G01M15/00 G01M15/05 G01R13/32 (Advanced/Invention);
F02P17/00 G01M15/00 G01M15/04 G01R13/22 (Core/Invention)
International (IPC 1-7): G01M15/00
CPC: F02P17/02 G01M15/00 G01M15/05 G01R13/32
European: F02P17/02 G01M15/00 G01M15/05 G01R13/32
US: 315/9 73/114.09 73/114.26 73/117.2



Family:

Publication number	Publication date	Application number	Application date
US3034343 A	19620515	US19550517577	19550623

Priority:

US19550517577 19550623

Probable Assignee: LINDBERG JR JOHN E
Assignee(s): (std): LINDBERG JR JOHN E
Inventor(s): (std): LINDBERG JR JOHN E
Inventor(s): JR JOHN E LINDBERG

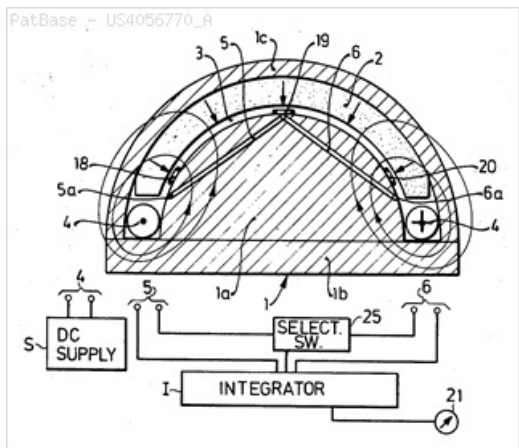
72) Family number: 1459480 (US4056770A) © PatBase

Title: Dynamo electric machine permanent magnet flux test apparatus which simulates actual flux conditions of the motor

Abstract: To test the flux of circular segmental permanent magnets for assembly in permanent magnet dynamo electric machines, typically electric motors, a gauge is made of soft iron having an inner segmentally circular soft iron core, on it a layer of non-magnetic material to simulate the air gap of the motor, space for the permanent magnet to be inserted, and a return soft iron yoke in magnetic circuit with the core. A measuring coil which is chorded is located on the gauge to sense the magnetic flux, and so placed on the core that it conforms, at least approximately, to the pitch angle of the armature winding of the dynamo electric machine with which the magnet is to be used. To simulate cross fields, a demagnetization winding can be placed in the space adjacent the layer of nonmagnetic material adjacent the ends of the space for the permanent magnets to be tested, or the core can be cut with grooves similar to the coil slots of the armature, with current being passed therethrough in a direction to simulate the armature cross field. The test apparatus can be combined with a magnetizing yoke carrying magnetization coils to magnetize the segments, test them, and then demagnetize the segments, and reversely magnetize them for test of uniformity. Magnetic sensors can be placed on the core to sense the localized flux distribution of the magnetized magnet elements.

Classifications:

International (IPC 8-9): G01B3/34 G01B7/00 G01R33/12 H01F13/00 H01F7/02 H02K11/00 (Advanced/Invention);
G01B3/34 G01B7/00 G01R33/12 H01F13/00 H01F7/02 H02K11/00 (Core/Invention)
International (IPC 1-7): G01B3/34 G01B7/02 G01R33/02 G01R33/12 H01F13/00 H01F7/02 H02K11/00 H02K15/00 H02K15/02
CPC: H01F7/0205 G01R33/12 H01F13/003
European: G01R33/12 H01F13/00B H01F7/02A
US: 324/205 361/148



Family:

Publication number	Publication date	Application number	Application date
DE2542774 A1	19770421	DE19752542774	19750925
DE2542774 B2	19780209	DE19752542774	19750925
DE2542774 C3	19781012	DE19752542774	19750925
FR2325942 A1	19770422	FR19760025876	19760826
FR2325942 B1	19811009	FR19760025876	19760826
GB1552809 A	19790919	GB19760039637	19760924
JP1400696 C3	19870928	JP19760114360	19760922
JP52041548 A2	19770331	JP19760114360	19760922
JP62000469 B4	19870108	JP19760114360	19760922
NL7610644 A	19770329	NL19760010644	19760924
SE408247 B	19790521	SE19760001866	19760218
SE408247 C	19790830	SE19760001866	19760218
SE7601866 A	19770326	SE19760001866D	19760218
US4056770 A	19771101	US19760726874	19760927

Priority:

DE19752542774 19750925

Probable Assignee: BOSCH GMBH ROBERT**Assignee(s):** (std): BOSCH GMBH ROBERT**Assignee(s):** BOSCH ROBERT GMBH ; ROBERT BOSCH GMBH ; ROBERT BOSCH GMBH 7000 STUTTGART ; ROBERT BOSCH GMBH TE STUTTGART BONDSREPUBLIC DUTSLAND ; BOSCH GMBH R**Inventor(s):** (std): MOHR A ; MOHR ADOLF ; SOHN W ; SOHN WOLFGANG ; STROBL G ; STROBL GEORG ; SOHN WOLFGANG DR ING ; MOHR ADOLF DR ING ; GEORUGU SHIYUTOROORURU ; BORUFUGANGU ZOON ; AADORUFU MOORU**Inventor(s):** UORUFUGANGU ZOON ; W SOHN ; MOHR ADOLF DR ING 7582 BUEHLERTAL ; A MOHR ; G STROBL ; GEORUGU SHUTOROORURU**73) Family number: 50093481 (US2012174138A)**

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Title: ELECTROMAGNETIC ACTUATOR OF OPTICAL PICKUP HEAD

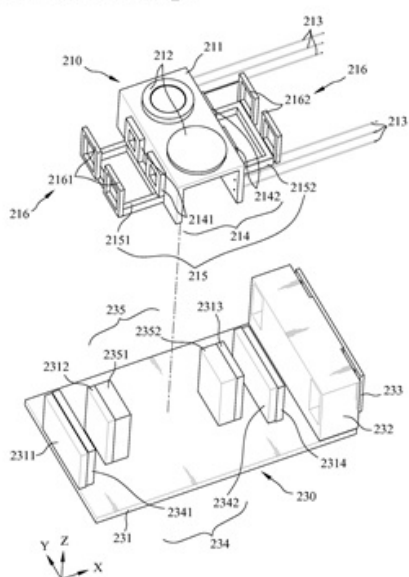
Abstract: An electromagnetic actuator is provided, including an object lens holder hanged by a set of wires forming suspended object. A focus coil set is fixed to object lens holder and placed surrounding focus and track shared magnet set. The focus coil located between object lens holder and focus and track shared magnet set is within magnetic field of focus and track shared magnet set. The focus coil located between tilt magnet set and magnetic field of focus and track shared magnet set is within the effective field of tilt magnet set and focus and track shared magnet set due to shielding effect of the yoke protruding plates. When a current runs through focus coil, a magnetic force in the focus direction is induced simultaneously within the range of tilt magnet set and focus and track shared magnet set so that object lens holder can focus.

Classifications:**International (IPC 8-9):** G11B15/18 G11B7/085

G11B7/09 (Advanced/Invention)

CPC: G11B7/0933 G11B7/0935**European:** G11B7/09D5 G11B7/09D6**US:** 720/663 720/663P 720/681 G9B/7.042

PatBase - US2012174138_AA

**Family:**

Publication number	Publication date	Application number	Application date
TWM418375 Y	20111211	TW20100225760U	20101231
US2012174138 AA	20120705	US20110225482	20110905
US8291442 BB	20121016	US20110225482	20110905

Priority:

TW20100225760 20101231 TW20100225760U 20101231

Probable Assignee: TOPRAY TECHNOLOGIES INC**Assignee(s):** (std): CHANG PING JU ; CHANG TSUNG KAI ; TOPRAY TECHNOLOGIES INC**Inventor(s):** (std): CHANG PING JU ; CHANG TSUNG KAI ; ZHANG PING RU ; ZHANG ZONG KAI**Agent(s):** LIN AND ASSOCIATES IP INC

Title: TRANSFORMER FOR INDUCTIVE INSTRUMENT

Abstract: The inductive transformer has two toroidal or rectangular cores (1, 2) whose two adjacent sections (3, 4) are surrounded by the high voltage coil (16). Each section is provided with its own low voltage coil (5, 6). The low voltage coils are preferably wound around corresponding sections of the two cores. The high voltage coil passes through both cores and around both low voltage coils. The latter can be connected in series parallel. The three coils may be included in various configurations. The coil end may be so coupled to the transformer terminals, as to permit connection to checking and measuring instruments respectively.

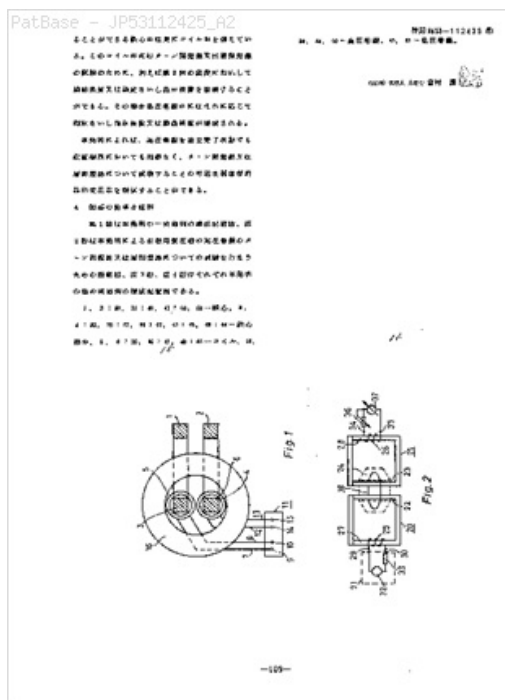
Classifications:

International (IPC 8-9): G01R31/06 H01F38/24 (Advanced/Invention);
G01R31/02 H01F38/22 (Core/Invention)

International (IPC 1-7): G01R31/06 H01F40/04 H01F41/00

CPC: G01R31/06 H01F38/24

European: G01R31/06 H01F38/24

**Family:**

Publication number	Publication date	Application number	Application date
DE2710827 A1	19780914	DE19772710827	19770310
DE2710827 B2	19800417	DE19772710827	19770310
DE2710827 C3	19801218	DE19772710827	19770310
JP53112425 A2	19780930	JP19780027568	19780310

Priority:

DE19772710827 19770310

Probable Assignee: SIEMENS AG

Assignee(s): (std): SIEMENS AG

Inventor(s): (std): MOELLENBECK KLAUS DIPL ING ; KURAUSU MERENBETSUKU

Inventor(s): MOELLENBECK KLAUS DIPL ING 1000 BERLIN

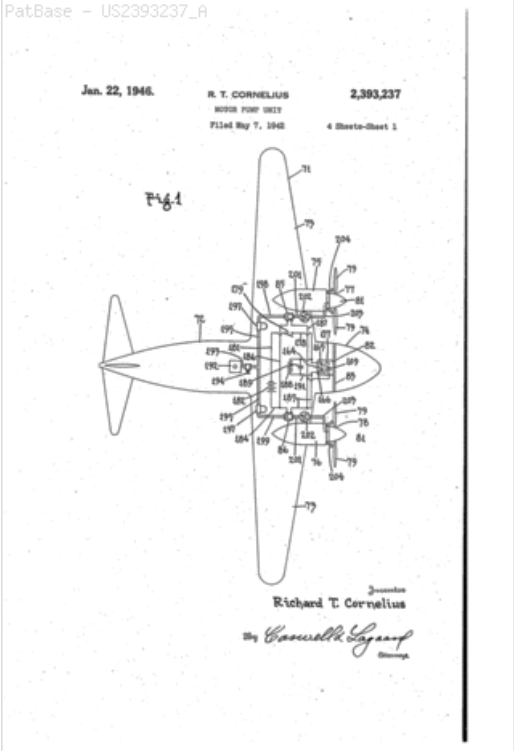
Title: MOTOR PUMP UNIT

Abstract: Having described 'my invention, what I claim as new and desire to protect by Letters Patent is: 1. In a timer, a pivoted oscillatory member, a switch, means on said oscillatory member for operating said switch, a spiral spring attached at one end to a part movable with said oscillatory member, a segment, a slide movable along said segment, said spring being attached at, its other end to said slide, means for periodically moving said oscillatory member in one direction to tension said spring, said means being controlled by said switch. 2. In a timer, a pivoted oscillatory member, a switch, means on said oscillatory member for operating said switch, a spiral spring attached at one end to a part movable with said oscillatory member, a segment, a slide movable along said segment, means for periodically moving said oscillatory member in one direction to tension said spring, said means being controlled by said switch, a weighted arm pivoted to said pivoted member and movable radially relative thereto and means for limiting the outward movement of said weighted arm. 3. In a timer, a pivoted oscillatory member, a switch, means on said oscillatory member for operating said switch, a spiral spring attached at one end to a part movable with said oscillatory member, a segment, a slide movable along said segment, means for periodically moving said oscillatory member in one direction to tension said spring, said means being controlled by said switch, a weighted arm pivoted to said pivoted member and movable radially relative thereto and means for limiting the outward movement of said weighted arm. 4. In a timer, a pivoted oscillatory member, a switch, means on said oscillatory member for operating said switch, a spiral spring attached at one end to a part movable with said oscillatory member, a segment, a slide movable along said segment, means for periodically moving said oscillatory member in one direction to tension said spring, said means being controlled by said switch, a weighted arm pivoted to said pivoted member and movable radially relative thereto and means for limiting the outward movement of said weighted arm. 5. In a timer, a support, an oscillatory member, a weight carried by said oscillatory member, means for guiding said weight for movement toward and from the axis of said oscillatory member, a timing control member, means for guiding one of said two first named members for movement relative to the other, means acting between said timing control member and said weight for limiting the outward movement of the weight, a slidable member, said pivoted member, said pivotesi, member-oscillating relative V1; Q_>sa=ld=slid-able-member, _means for restraining :rotation of said slidable member fond 11058-tiDl3ssB>1 meéms ren-_ gaging ,said -slidable membersgmd causing :axial movementthereof. - ; 4. In a timer, a pivoted oscillatory member, a weight carried by said oscillatory member, means for guiding said weight for movement toward and from the axis of said oscillatory member, a timing control member, means for guiding one of said two first named members for movement relative to the other, means acting between said timing control member and said weight for limiting the outward movement of the weight, a slidable member, said pivoted member oscillating relative to said slidable member, means for restraining rotation of said slidable member and threaded means engaging a part movable with said slidable member and upon rotation causing axial movement thereof. 5. In a timer, a support, an oscillatory member, a weight carried by said oscillatory member, means for guiding said weight for movement toward and from the axis of said oscillatory member, a bearing carried by said support, a timing control member mounted in said bearing and oscillating with said oscillatory member, said oscillatory member being axially slidable relative to said timing control member, means acting between said timing control member and said weight for procuring movement of the weight relative to the axis of the oscillatory member upon axial movement of the oscillatory member, and means for imparting to said oscillatory member axial movement, S. In a timer, a support, an oscillatory

member, a weight carried by Said oscillatory member, means for guiding said weight for movement toward and from the axis of said oscillatory member, a bearing carried by said support, 2, timing control member mounted in said bearing and oscillating with said oscillatory member, said oscillatory member being axially slidable relative to said timing control member, means acting between said timing control member and said weight for procuring movement of the weight relative to the axis of the oscillatory member upon axial movement of the oscillatory member, means for imparting to said oscillatory member axial movement, means for imparting to said oscillatory member oscillatory movement in one direction and resilient, means acting between said adjusting member and a part fixed relative to the support for imparting to said oscillatory member oscillatory movement in the other direction. 7. In B. timer, a support, an oscillatory member, a weight carried by said oscillatory member, means for guiding said weight for movement toward and from the axis of said oscillatory member, a bearing carried by said support, a timing control member mounted in said bearing and oscillating with said oscillatory member. said oscillatory member being axially slidable relative to said timing control member, means acting between said timing control member and said weight for procuring movement of the weight relative to the axis of the oscillatory member upon axial movement of the oscillatory member, a slidable member in axial alignment with said bearing, means carried by said support for guiding said slidable member for axial movement and means for supporting said oscillatory member for oscillatory movement with respect to said slidable member and for causing simultaneous H! is zu so :is -an ass# a sliding movement oiasaid-slidable membergeeltgd said oscillatorymember; , { ~ is, in a, timer,-=a »support.t; ,an ,oscillatoljysmemf belga- weelghti carried _by saldç-oscillatory -member, means 4 for; said weight ,for mDV€l§§\ç\$lt', \$9~ ward and-Fromjthe axis. of-said oscillatory member, fvheerirzg _lt;zerr~ied'l_y_gt;wid ,Su\$ _gt;vDnt,f=1~T>iminç control uaember :mounted in said fbea,i'ing,and oscillating with _ _said -oscillatory__n1çen;bexj,~ :said osoilatory.member' _belng axially-slidalple .relative to said timing control member, means acting between said timing control member and said weight for procuring movement of the weight relative to the axis of the oscillatory member upon axial movement of the oscillatory member, a. slidable member in axial alignment with said bearing, means carried by said support for guiding said slidable member for axial movement, means for supporting said oscillatory member for' rotational movement with respect to said slidable member and for causing simultaneous sliding movement of said slidable member and said oscillatory member, and a. threaded member for engagement with said slidable member to impart to said slidable member and oscillatory member axial movement. 9. In a. timer, a pivot/ed oscillatory member having a bore, an arm, a weight carried by said arm, means for pivoting said arm to said pivoted member to cause said weight to move transversely of the axis of said pivoted member upon swinging of said arm, a finger on said arm movable substantially axially upon swinging of said arm and a timing control member disposed within said bore and having a part engaging said finger, said members being guided for relative axial movement, and means for moving one of said members axially relative to the other to limit, the outward movement of said weight. ill. In a timer, a pivoted oscillatory member having a bore and a transverse slot communicating with said bore, an arm, a weight carried by said arm, means for pivoting said arm to said pivoted member to cause said weight to move transversely of the axis of said pivoted member upon swinging of said arm, a finger on said arm extending through said slot and into said bore and movable substantially axially upon swinging of said arm and a timing control member disposed within said bore and having a shoulder engaging said finger, said members being guided for relative axial movement., and means for moving one of said members axially relative to the other to limit the outward movement of said weight. - ' ll. In a timer, a pivoted member, a spring connected to said pivoted member, motive means for imparting to said pivoted member intermittent torque impulses, said motive means and spring causing said pivoted member to oscillate about its axis, a. weight oscillating with said pivoterl member and timing the period of oscillation of said member, means for guiding said weight for movement toward and from the axis of said pivoted member and axially movable means for limiting the outward movement of the weight. ' 12, In 9, timer, a support, an oscillatory member, a weight carried by said oscillatory member, means for guiding said weight for movement toward and from the axis of said oscillatory member, a bearing carried by said support, a timing control member mounted in said hearing and oscillating with said oscillatory member, said oscillatory member being axially slidable é ` e,sa_gt;§,esf relative to said timing control means; means actingbetween said timing control member and said Weight for procuring movement of the weight relative to the axis of-the oscillatory member upon axial movement of the oscillatozymember, nieans for imparting tosaid oscillatory member axial movement, an electromagnet formed with spaced pole pieces having facing' surfaces parallel 'with the axis of said pivoted member, an armature movable with said pivoted member and I0 disposed between said pole pieces, said electro-' magnet imparting to said oscillatory member oscillatory movement in one direction and resilient means acting between said adjusting member and sv. part lixed relative to the support for imparting to -said oscillatory member oscillatory movement in the other direction, said armature, upon axial movement of said pivoted member. moving longitudinally along said pole pieces

Classifications:

International (IPC 8-9): F04B17/04 H02K33/10 (Advanced/Invention); F04B17/03 H02K33/00 (Core/Invention)
International (IPC 1-7): B64D37/02
CPC: F04B17/046 H02K33/10
European: F04B17/04D H02K33/10
US: 310/39



Family:

Publication number	Publication date	Application number	Application date
US2393237 A	19460122	US19420442008	19420507

Priority:

US19420442008 19420507

Probable Assignee:

CORNELIUS RICHARD T

Assignee(s): (std):

CORNELIUS RICHARD T

Inventor(s): (std):

CORNELIUS RICHARD T

Title: MERCURY RELAY

Abstract: (Claim 1) 1 An electromagnetic relay comprising a hermetically closed envelope which encloses at least two cooperating electric contacts of which one is fixed and another is movable by magnetic forces and a conductive liquid which is preferably mercury or an amalgam thereof, the envelope comprising a nonmagnetic metal tube having at least one open extremity in which one of the contacts is axially located and separated from the tube by an insulating ring which is not wettable or covered by the conductive liquid, wherein the contacts are wettable by the liquid and the envelope contains sufficient of the liquid to form a film over the wettable surfaces internally of the envelope, but not sufficient to form a pool, and the tube constitutes one of the contacts and/or a terminal of the relay.

Classifications:

International (IPC 8-9): H01H1/08 H01H29/18

H01H51/28 (Advanced/Invention);

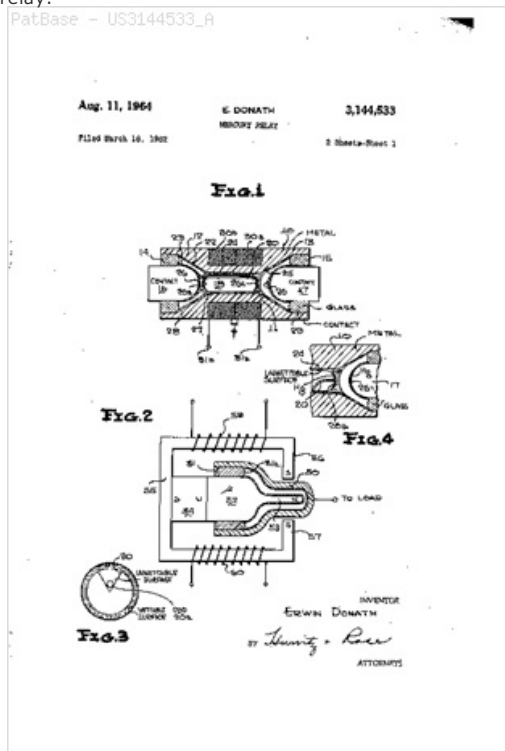
H01H1/06 H01H29/00 H01H51/00 (Core/Invention)

International (IPC 1-7): H01H1/08 H01H43/28 H01H45/72 H01H50/72

CPC: H01H1/08 H01H29/18 H01H51/288

European: H01H1/08 H01H29/18 H01H51/28H

US: 200/183 200/210 200/214 200/226 200/234 200/235 335/51 335/56 335/58



Family:

Publication number	Publication date	Application number	Application date
BE636701 A	19631216	BE19630636701	19630828
CH420337 A	19660915	CH19630010542	19630826
DE1229618 B	19661201	DE1963F040583	19630826
FR1375169 A	19641016	FR19630945673	19630826
GB1066245 A	19670426	GB19630033663	19630826
NL297139 A	19650525	NL19630297139	19630826
US3144533 A	19640811	US19620180090	19620316

Priority:

US19620180090 19620316 CH19630010542 19630826 DE1963F040583 19630826
FR19630945673 19630826

Probable Assignee: PNC BANK NA

Assignee(s): (std): FIFTH DIMENSION ; FIFTH DIMENSION INC

Assignee(s): PNC BANK NA ; PNC BANK NATIONAL ASSOCIATION

Inventor(s): (std): ERWIN DONATH ; DONATH ERWIN

Title: AIR BEARING PLANAR DIRECT DRIVE FOR LINEAR DIRECT CURRENT MOTOR, HAS POLE TEETH ON PRISMATIC CUT STATOR AND ROTOR IN TOOTH PITCH PERIOD, WHICH RANGES BETWEEN CERTAIN MILLIMETERS, WHERE PERIOD IS SUM OF TOOTH WIDTH AND TOOTH BASE WIDTH

Abstract: The drive has laminations (1), coils, permanent magnets and air jet bodies, which are enclosed in a housing. Pole teeth are provided on a prismatic cut stator and a rotor in a tooth pitch period (Tz). The tooth pitch period is the sum of tooth width and tooth base width. The tooth pitch period averages to be larger than 1.28 millimeters (mm) and smaller than 25 mm, in particular between 1.29 mm and 10 mm. Independent claims are also included for the following: (A) a method for manufacturing a winding body (B) a method for producing a rotor active part that consists of punching unit for a linear and planar direct drive (C) a control function for phase current that is utilized for a linear and planar direct drive.

Classifications:

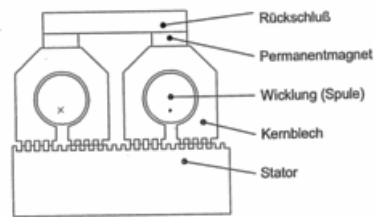
International (IPC 8-9): H02K15/02 H02K41/03 (Advanced/Invention);

H02K15/02 H02K41/03 (Core/Invention)

CPC: H02K15/022 H02K41/03

European: H02K41/03 T02K15/02B

Fig. 1



12/17

Family:

Publication number	Publication date	Application number	Application date
DE102004045303 A1	20060406	DE200410045303	20040918

Priority:

DE200410045303 20040918

Probable Assignee: PASIM DIREKTANTRIEBE GMBH**Assignee(s):** (std): DREIFKE NILS ; PASIM DIREKTANTRIEBE GMBH**Inventor(s):** (std): DREIFKE NILS**78) Family number: 12122528 (US6249006B)**

© PatBase

Title: Electromagnetic field shielding device

Abstract: The electromagnetic field shielding apparatus of the present invention includes the electromagnetic field detection coil 21 for detecting an AC leakage electromagnetic field and the parallel resonance circuit 22-24 whose circuit constants are predetermined so that the resonance frequency matches the frequency of the electromotive force induced by the electromagnetic field detection coil 21. The resistor 24 of the parallel resonance circuit 22-24 consumes energy so that the strengths of the magnetic and electrical fields passing through the electromagnetic field detection coil 21 are suppressed.

Classifications:

International (IPC 8-9): G01R1/18 G01R29/08 H01J29/00 H01Q1/52
H04B15/00 (Advanced/Invention);
H04N5/645 (Advanced/Non-invention);
G01R1/02 G01R29/08 H01J29/00 H01Q1/00
H04B15/00 (Core/Invention);
H04N5/645 (Core/Non-invention)

International (IPC 1-7): B64G1/54 H05K9/00

CPC: G01R1/18 G01R29/0814 G01R29/0878 H01J29/003
H01J2229/0023 H01Q1/526 H04B15/00 H04N5/645

European: G01R1/18 G01R29/08A3 H01J29/00B H01Q1/52C
H04B15/00 S01R29/08E3 T01J229/00B3B T04N5/645

US: 250/505.1 250/515.1 348/E05.129 348/E5.129

PatBase - US6249006_BA

U.S. Patent Jun. 19, 2001 Sheet 1 of 18 US 6,249,006 B1

Fig. 1

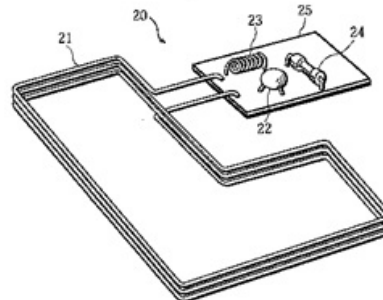
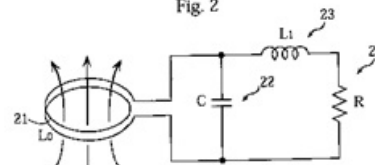


Fig. 2

**Family:**

Publication number	Publication date	Application number	Application date
DE69728650 D1	20040519	DE19976028650	19971003
EP0880311 A1	19981125	EP19970942249	19971003
EP0880311 A4	20000809	EP19970942249	19971003
EP0880311 B1	20040414	EP19970942249	19971003
JP3176636 B2	20010618	JP19980503648T	19971003
US6249006 BA	20010619	US19980077392	19980528
WO9815161 A1	19980409	WO1997JP03556	19971003

Priority:

JP19960264274 19961004 WO1997JP03556 19971003

Probable Assignee: MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

Assignee(s): (std): MATSUSHITA ELECTRIC IND CO LTD ; SAKIYAMA KAZUYUKI

Assignee(s): MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

Inventor(s): (std): SAKIYAMA KAZUYUKI

Designated states: DE FR GB JP NL US

79) Family number: 988534 (US3636390A)

© PatBase

Title: EXPLOSIVE PULSE GENERATOR

Abstract: This invention relates to a power supply for generating an electrical pulse. More particularly, the invention is a power supply for generating an electrical pulse including a housing, a coil of wire supported by the housing, a magnetic member supported by the housing and removable relative to the coil, and an explosive element having an igniter cap which, when physically distorted, ignites the explosive element, the explosive element being carried by the body and arranged to move the magnetic member by explosive force to induce a voltage pulse in the coil.

Classifications:

International (IPC 8-9): F42C 11/04 H02K39/00 (Advanced/Invention);

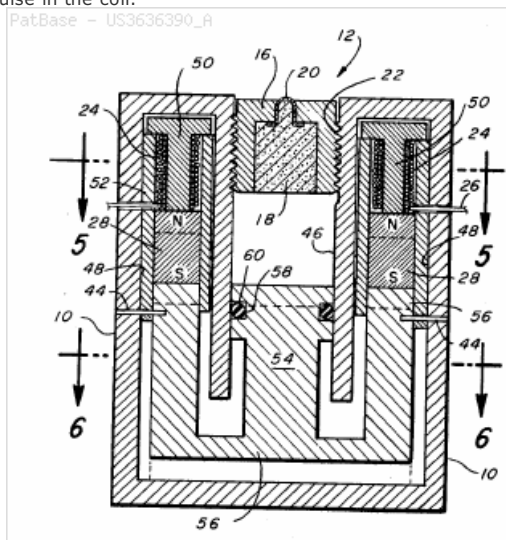
F42C 11/00 H02K39/00 (Core/Invention)

International (IPC 1-7): H02K35/02

CPC: F42C 11/04 H02K39/00

European: F42C 11/04 H02K39/00

US: 290/1 290/1R 310/14



Family:

Publication number	Publication date	Application number	Application date
US3636390 A	19720118	US19700005629	19700126

Priority:

US19700005629 19700126

Probable Assignee: BARGE INC

Assignee(s): (std): BARGE INC

Assignee(s): LA BARGE INC

Inventor(s): (std): CHRISTIANSON WILLIAM O ; STAUDER BOB E

Inventor(s): WILLIAM O CHRISTIANSON ; BOB E STAUDER

80) Family number: 50624541 (CN202134987U)

© PatBase

Title: Small-sized wind generator

Abstract: The utility model relates to a small-sized wind generator comprising a stator frame (1), wherein the stator frame (1) has a cylindrical structure, a left end of an inner wall of the stator frame (1) is provided with a circle of flange (1.1), a stator core (3) is inserted in the stator frame (1), coils (4) are wound on the stator core (3), the coils (4) are sealed in coating glues (7), and a left end of the stator core (3) is pressed on the flange (1.1), a right end of the stator frame (1) is inserted with a snap ring (2), the snap ring (2) is arranged at a right end of the stator core (3), and a rotor is inserted in the stator core (3). The rotor comprises a rotor yoke (5) and rotor magnetic steels (6), wherein the rotor yoke (5) has a hollow cylindrical structure, and the rotor magnetic steels (6) are uniformly arranged on an outer wall of the rotor yoke (5). The small-sized wind generator of the utility model has the advantages of convenient installation, light weight, reliability, and maintenance free.

Classifications:

International (IPC 8-9): H02K1/12 H02K1/22 H02K3/46 H02K5/04

H02K5/18 (Advanced/Invention)

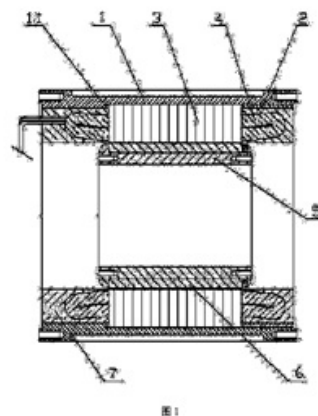


图1

5

Family:

Publication number	Publication date	Application number	Application date
CN202134987 U	20120201	CN201120271563U	20110729

Priority:

CN201120271563U 20110729

Probable Assignee: JIANGYIN BOFENG SPECIAL MOTOR CO LTD**Assignee(s):** (std): JIANGYIN BOFENG SPECIAL MOTOR CO LTD**Assignee(s):** JIANGYIN BOFENG SPECIAL MOTOR CO**Inventor(s):** (std): GENHONG ZHANG ; YI JIANG ; YIJUN MA**Inventor(s):** ZHANG GENHONG ; JIANG YI ; MA YIJUN**81) Family number: 22692546** (US2613550A)

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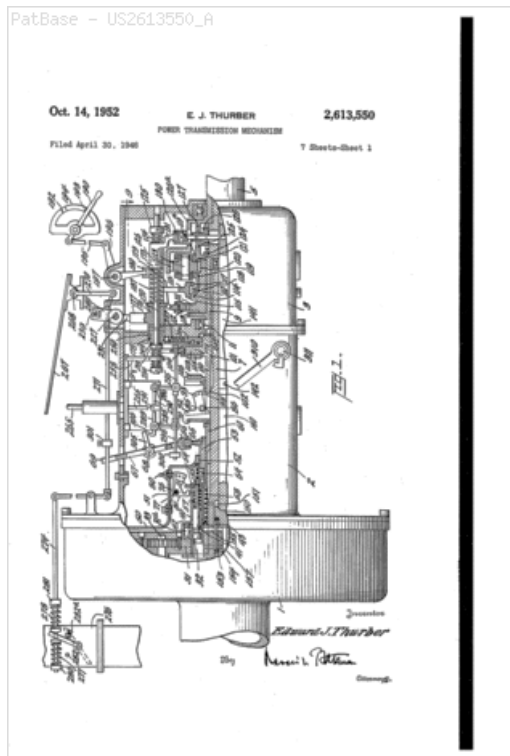
Title: POWER TRANSMISSION MECHANISM

Abstract: (Claim 1) A power transmission mechanism comprising driving and driven elements, means including a torque controlling element interposed between said elements for transmitting torque from the driving to the driven element, a master governor responsive to the speed of the driven element and operative upon said torque controlling element to increase the torque transmitted between said elements, an auxiliary governor responsive to the speed of the driving element and operative upon said torque controlling element to reduce the torque transmitted between said elements in opposition to the influence of the master governor, and means for restoring the master governor from speed operated condition to inactive condition.

Classifications:**International (IPC 8-9):** F16H61/02 (Advanced/Invention);

F16H61/02 (Core/Invention)

International (IPC 1-7): F16H39/34**CPC:** F16H61/0293 Y10T477/637 Y10T477/6933**European:** F16H61/02M**US:** 477/123 477/69

**Family:**

Publication number	Publication date	Application number	Application date
US2613550 A	19521014	US19460666064	19460430

Priority:

US19460666064 19460430

Probable Assignee:

THURBER CORP

Assignee(s): (std):

THURBER CORP

Inventor(s): (std):

THURBER EDWARD J

82) Family number: 19671550 (GB768415A)

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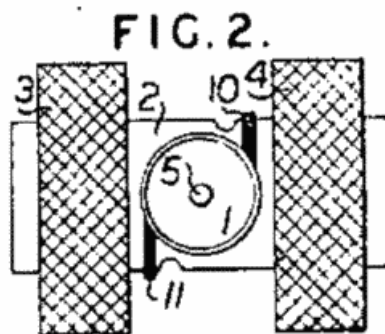
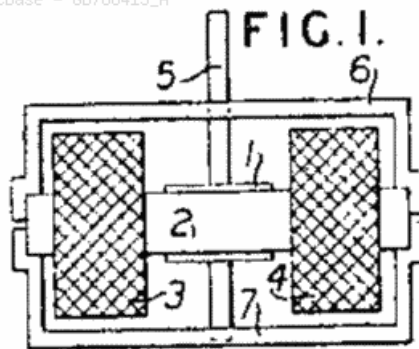
Title: Improvements in or relating to electric motors

Abstract: 768,415. Induction motors. TELEFUNKEN GES. April 14, 1955 [April 15, 1954], No. 10717/55. Class 35. A single-phase induction motor, e.g. for gramophones c., has a stator comprising a laminated bar 2 carrying the windings 3, 4 and having a bore accommodating the rotor 1, magnetic yokes 6, 7 serving to grip the ends of the bar and providing bearings for the rotor shaft 5. The motor is rendered self-starting by means of shading rings 10, 11.

Classifications:**International (IPC 8-9):** H02K17/10 (Advanced/Invention);

H02K17/02 (Core/Invention)

International (IPC 1-7): H02K1/18**CPC:** H02K17/10**European:** H02K17/10

**Family:**

Publication number	Publication date	Application number	Application date
GB768415 A	19570213	GB19550010717	19550414

Priority:

19540415

Probable Assignee:

TELEFUNKEN GMBH

Assignee(s): (std):

TELEFUNKEN GMBH

Assignee(s):

TELEFUNKEN G M B H

83) Family number: 30937551 (US2006144472A)

© PatBase

Title: DAMPING AND ACTUATING APPARATUS COMPRISING MAGNETOSTRICTIVE MATERIAL, A VIBRATION DAMPENING DEVICE AND USE OF SAID APPARATUS

Abstract: The invention relates to devices that produce displacements and/or forces (defined as actuators), when a magnetic field source(s) is (are) placed in such a way that the resulting magnetic field is of suitable strength and orientation in relation to the actuating element made from a Magneto-Mechanical Adaptive (MMA) material, so as to produce the desired displacement of the MMA element; or to devices that dampen mechanical vibrations by absorbing the vibration energy into an MMA element and/or by converting the vibration energy into electric power in the device and/or senses displacement velocity or acceleration. The electric energy can be dissipated to heat or led out from the device. In the latter case, the device works as a power generator. The principle of using the devices as sensors is also described. The MMA material here is defined as a material whose dimensions change when a magnetic field or stress is applied to it, based on twin boundary or austenite-martensite phase boundary motion or magnetostriction.

Classifications:

International (IPC 8-9): B06B1/04 B06B1/08 F16F15/00 G10K11/16

G10K11/178 H01F1/03 H01L41/12 H01L41/20 H02K33/18

H02N2/00 (Advanced/Invention);

B06B1/02 (Advanced/Non-invention);

B06B1/02 F16F15/00 G10K11/00 H01F1/03 H01L41/00 H01L41/16

H02K33/18 H02N2/00 (Core/Invention);

F03G H01L H02N (Subclass/Invention)

International (IPC 1-7): B06B1/08 F03G H01L H01L41/20 H02N

CPC: G10K11/178 F16F15/005 B06B1/045 B06B2201/58

B06B2201/70 G10K11/16 G10K2210/10 G10K2210/116

G10K2210/121 G10K2210/321 G10K2210/32121 G10K2210/3223

G10K2210/3224 G10K2210/3228 G10K2210/3229 G10K2210/507

G10K2210/509 H01L41/12

European: B06B1/04B F16F15/00P G10K11/16 G10K11/178E

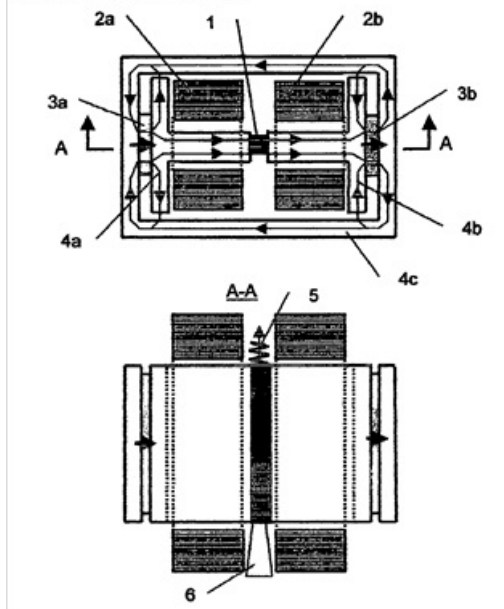
H01L41/12 L06B201/58 L06B201/70 S10K210/10 S10K210/116

S10K210/121 S10K210/321 S10K210/32121 S10K210/3223

S10K210/3224 S10K210/3228 S10K210/3229 S10K210/507

S10K210/509

US: 148/104

**Family:**

Publication number	Publication date	Application number	Application date
CA2517388 AA	20050829	CA20042517388	20040303
EP1663519 A1	20060607	EP20040716614	20040303
FI20021099 A0	20020607	FI20020001099	20020607
FI20030332 A0	20030303	FI20030000332	20030303
JP2006521198 T2	20060921	JP20060505616T	20040303
US2006144472 AA	20060706	US20040547880	20040303
WO04078367 A1	20040916	WO2004FI00118	20040303

Priority:

FI20020001099 20020607 FI20030000332 20030303 WO2004FI00118 20040303

Probable Assignee: ADAPTIVE MATERIALS TECHNOLOGY OY

Assignee(s): (std): ADAPTAMAT TECH OY ; TELLINEN JUHANI ; ULLAKKO KARI

Assignee(s): ADAPTIVE MATERIALS TECHNOLOGY ADAPTAMAT OY ; ADAPTIVE MATERIALS TECHNOLOGY OY

Inventor(s): (std): ULLAKKO KARI ; TELLINEN JUHANI

Agent(s): MACRAE AND CO; INTELLECTUAL PROPERTY/PORTFOLIO STRATEGIES PLLC; INTELLECTUAL PROPERTY PORTFOLIO STRATEGIES PLLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

84) Family number: 3986554 (GB1436186A)

© PatBase

Title: ELECTRO-MAGNETIC NON-DESTRUCTIVE TESTING BY MEANS OF A ROTATING FIELD

Abstract: 1436186 Detecting flaws in metal M SHEPHERDSON 21 March 1974 [5 Feb 1973] 5528/73 Heading G1N Apparatus for testing an elongate element comprises stationary coils connected to a polyphase supply for inducing a magnetic field transverse to, and rotating about, a longitudinal axis of the element, and means responsive to magnetic anomalies arising from defects in the material. A system of exciter coils 1 Fig. 1 on slotted laminated steel cores 2 is connected to a 3-phase supply to generate in test material M a transverse magnetic field rotating about a longitudinal axis. A toroidal detector coil 3 radially within the exciter coil system 1 responds to a material defect by representing an e.m.f. to an indicating system, Fig. 2, comprising an amplifier 10 a phase-sensitive detector 12 fed with reference signals from the supply, filters 11, 13 and a display unit 14. For eddy-current testing of magnetic materials the incremental permeability may be reduced by a longitudinal saturating field provided by coils 4, 4 enclosed within a cylindrical steel yoke 5 with disc pole-pieces 6, or by a soft iron yoke with permanent magnets. Where surface eddy-currents are to be induced the apparatus may be adapted to high frequencies by removing the laminated cores 2 or replacing them with more suitable material, e.g. ferrite. Alternative detection arrangements include: the division of a toroidal coil into sectors each connected to a separate display system; and a set of polyphase detector coils in which the phasor sum of the induced e.m.f.s, normally zero, is unbalanced by the presence of a defect. In one embodiment two toroidal detector coils are positioned close together and connected differentially.

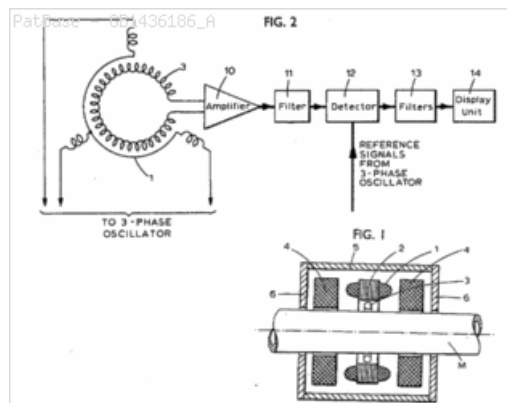
Classifications:

International (IPC 8-9): G01N27/90 (Advanced/Invention); G01N27/90 (Core/Invention)

International (IPC 1-7): G01N27/82 G01N27/86

CPC: G01N27/9013

European: G01N27/90A1



Family:

Publication number	Publication date	Application number	Application date
GB1436186 A	19760519	GB19730005528	19730205

Priority:

GB19730005528 19730205

Probable Assignee:

SHEPHERDSON M

Assignee(s): (std):

SHEPHERDSON M

85) Family number: 28196555 (US2001033216A)

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Title: AMORPHOUS METAL CORE TRANSFORMER

Abstract: An amorphous metal core transformer is provided with a plurality of wound magnetic cores composed of amorphous metal strips, and a plurality of coils, each of the coils including a primary coil and a secondary coil, each of the coils further including a bobbin. The primary coil employs different material from that of the secondary coil, e.g., a copper conductor is employed in a primary coil, while an aluminum conductor is employed in a secondary coil. The bobbin has higher strength than that of the amorphous metal strips.

Classifications:

International (IPC 8-9): H01F27/20 H01F27/24 H01F27/28

H01F30/12 (Advanced/Invention);

H01F27/08 H01F27/24 H01F27/28 H01F30/06 (Core/Invention)

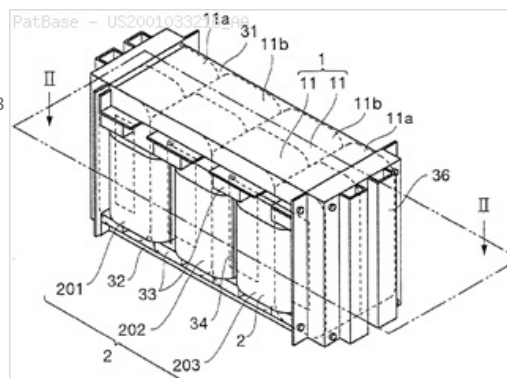
International (IPC 1-7): H01F27/08 H01F27/20 H01F27/24 H01F27/28

H01F30/12

CPC: H01F30/12

European: H01F30/12

US: 336/198 336/213 336/213P 336/220 336/221 336/5 336/55 336/5P



Family:

Publication number	Publication date	Application number	Application date
DE69922094 D1	20041230	DE19996022094T	19990727
DE69922094 D1	20041230	DE19996022094	19990727
DE69922094 T2	20051201	DE19996022094T	19990727
EP0977214 A1	20000202	EP19990305944	19990727
EP0977214 B1	20041124	EP19990305944	19990727
JP2000082625 A2	20000321	JP19980216755	19980731
JP2005129966 A2	20050519	JP20050008597	20050117
JP4358119 B2	20091104	JP20050008597	20050117
US2001033216 AA	20011025	US20010825339	20010404
US2002057180 AA	20020516	US19990363836	19990730
US6750749 BB	20040615	US19990363836	19990730
US7034648 BB	20060425	US20010825339	20010404

Priority:

JP19980182788 19980629

JP19980216755 19980731

US19990363836 19990730

US20010825339 20010404

JP20050008597 20050117

Probable Assignee: HITACHI LTD

Assignee(s): (std): HITACHI IND EQUIPMENT SYS ; HITACHI INDUSTRIAL EQUIPMENT SYSTEMS CO LTD ; HITACHI LTD ; SHIRAHATA TOSHIKI

Assignee(s): HORIUCHI MASAYUKI ; INAGAKI KATSUTOSHI ; URATA SHINYA

Inventor(s): (std): URATA SHINYA ; SHIRAHATA TOSHIKI ; INAGAKI KATSUTOSHI ; HORIUCHI MASAYUKI

Agent(s): MATTINGLY STANGER MALUR AND BRUNDIDGE PC

Designated states: DE FR GB IT

Title: Wire dot printer head and wire dot printer using the same

Abstract: A moving direction of the wire dot printer head is defined as a main scanning direction. The guide holes in the extremity end guide supporting the extremity ends of the wires of the present invention are arranged along an arc curved only in one direction of the sub-scanning direction in such a way that the arrangement positions in the main scanning direction are made different. With such an arrangement as above, all the wires are not driven at once and accordingly, it is possible to reduce the capacitance of power supply and noise. Further, since the extremity ends of the wires are arranged along an arc curved only in one direction in response to the arrangement state of the guide holes of the extremity end guide, the extremity ends of the wires can easily fed to the guide holes of the extremity end guide by a method for holding the plurality of wires at a plane of arcuate surface formed at the tool such as a wrench.

Classifications:

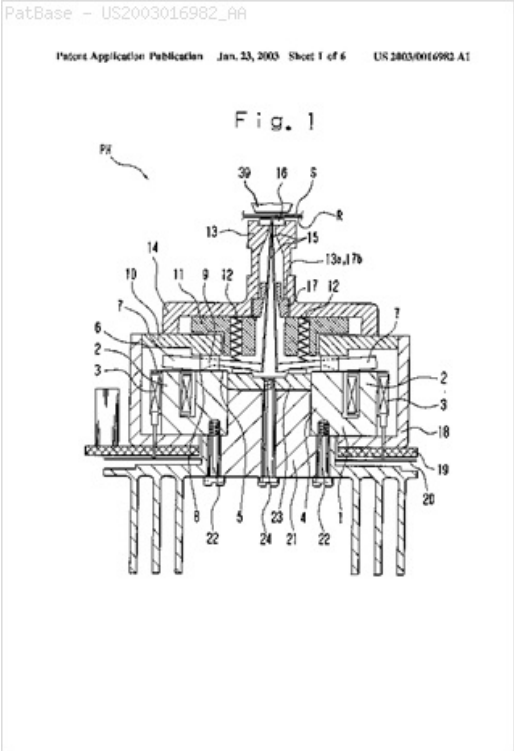
International (IPC 8-9): B41J2/255 B41J2/265 (Advanced/Invention); B41J2/235 B41J2/25 (Core/Invention)

International (IPC 1-7): B41J2/22 B41J2/235 B41J2/265

CPC: B41J2/255

European: B41J2/255

US: 400/124.01 400/124.010P 400/124.04 400/124.12



Family:

Publication number	Publication date	Application number	Application date
JP2002029076 A2	20020129	JP20000215691	20000717
JP4484328 B2	20100616	JP20000215691	20000717
US2003016982 AA	20030123	US20010905866	20010717
US6543944 BB	20030408	US20010905866	20010717

Priority:

JP20000215691 20000717

Probable Assignee: TOSHIBA TEC KK

Assignee(s): (std): TOSHIBA TEC KK

Assignee(s): TOSHIBA TEC CORP ; TOSHIBA TEC K USHIKI KAISHA AB ; TOSHIBA TEC KABUSHIKI KAISHA

Inventor(s): (std): HORII MASAMI ; ICHITANI TETSURO ; TERA0 YASUNOBU

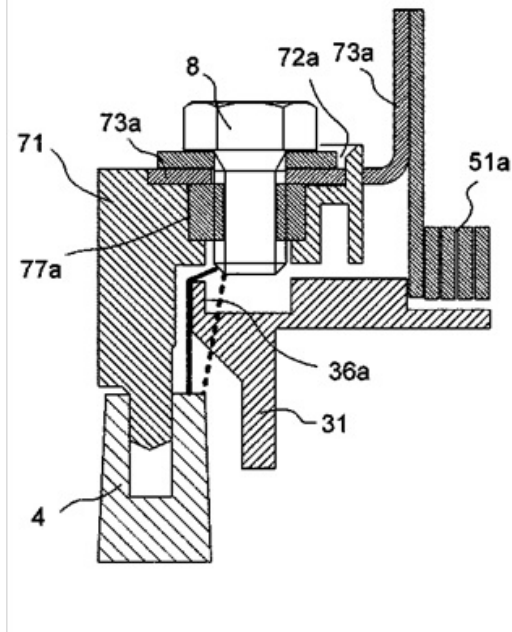
Agent(s): SAKAI HIROAKI

Title: REACTOR

Abstract: PROBLEM TO BE SOLVED: To provide a reactor miniaturized by arranging a terminal board above a yoke part of an annular core.SOLUTION: The reactor comprises an annular core 1, coils 51a, 51b wound around an outer periphery of a leg part of the annular core 1, resin moldings 2, 3 in which the annular core 1 is embedded, and a terminal board 71 provided with a terminal for connecting an external wiring to an end of the coil. Bobbins 22a, 22b and coating parts 21, 31 of the core are integrally formed on the resin molding 2. An assembly of the resin moldings 2, 3 in which the annular core 1 is embedded and the coils 51, 51b wound around the bobbins are housed in a metallic case 4. A gap is formed between the assembly and the case 4, and filled with a filler 9. An exposure part at a core bottom is coated with the filler 9. A terminal board 71 is arranged at a top part of the coating part 31, and ribs 36a, 36b for increasing an insulation distance between the terminal board and the case 4 are integrally formed on the coating part 31. A reinforcing plate 37 is integrally formed between the ribs 36a, 36b and the coating part 31.

Classifications:

International (IPC 8-9): H01F27/28 H01F37/00 (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
JP2014199872 A2	20141023	JP20130074791	20130329
JP6240394 B2	20171129	JP20130074791	20130329

Priority:

JP20130074791 20130329

Probable Assignee: TAMURA SEISAKUSHO KK
Assignee(s): (std): TAMURA SEISAKUSHO KK
Assignee(s): TAMURA CORP ; TAMURA SEISAKUSHO CO LTD
Inventor(s): (std): SUZUKI KOTARO

88) Family number: 7208564 (JP59154006A)

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Title: POLARIZED SOLENOID

Abstract: PURPOSE: To reduce the weight of a driving part and the time of operation by a method wherein large pole-contact surfaces with which an armature and yokes are facing are provided to increase the attractive force at the output end of a plunger and an armature block is composed of the plunger made of non-magnetic material and right and left armature pieces fixed vertically to both the ends of the plunger. CONSTITUTION: An internal yoke block 1 is composed of a center wall 1a, winding drums 1b, 1c provided to the left and the right of the center wall 1a and yoke pieces 1d, 1e provided to the left and right ends of the winding drums 1b, 1c. A piercing hole 1f, which pierces through above three portions, is also provided to the internal yoke block 1. Coils 2, 3 are applied on the left and right winding drums 1b, 1c. An armature block 4 is composed of a plunger 4a (non-magnetic material) and left and right armature pieces 4b, 4c. An external yoke 5 is facing the left and right armature pieces 4b, 4c with a fine gap P in between and at the same time a magnetic circuit is formed by the external yoke 5, the left and right armature pieces 4b, 4c and the internal yoke block 1. A permanent magnet 6 is placed between the external yoke 5 and the center wall 1a of the internal yoke block 1 and connects them magnetically.

Classifications:

International (IPC 8-9): H01F7/16 (Advanced/Invention);
H01F7/122 (Advanced/Non-invention);
H01F7/08 (Core/Invention)

International (IPC 1-7): H01F7/16

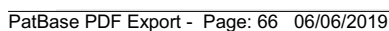
CPC: H01F7/1646

European: H01F7/16B1

Publication number	Publication date	Application number	Application date
JP59154006 A2	19840903	JP19830028850	19830222

Inventor(s): (std): KOSAKA KENICHI

US: 118/723VE 148/108 148/312 205/90 428/900



Publication number	Publication date	Application number	Application date
GB872070 A	19610705	GB19590014750	19590430
US3065105 A	19621120	US19580741696	19580612

Priority:

US19580741696 19580612

Probable Assignee:

SPERRY RAND CORP

Assignee(s): (std):

SPERRY RAND CORP

Inventor(s): (std):

POHM ARTHUR V

90) Family number: 19142576 (US3806782A)

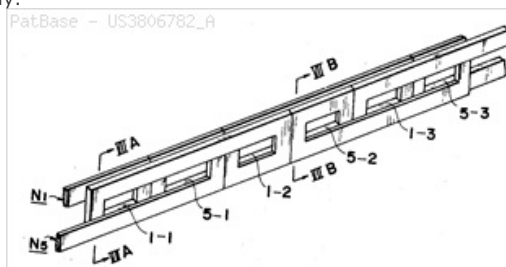
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Title: ELECTROMAGNETIC RAIL FOR DRIVING LINER MOTOR AND METHOD OF CONSTRUCTION THEREOF

Abstract: An electromagnetic rail for driving a train by a semiconductor controlled rectifier linear motor comprises an armature coil including a plurality of juxtaposed rows of composite coil arrays which are arranged in the longitudinal direction of the rail. Each composite coil array comprises two coil arrays, each having a plurality of serially connected rectangular coils, arranged in a straight line, spaced from one another with a pitch equal to the length of one coil, which are combined into a single row by so arranging the rectangular coils in one array as to fit in the one-coil-length intervals between the respective rectangular coils in the other array, the rectangular coils in one of the said two coils arrays being wound in a direction opposite to that of the rectangular coils in the other coil array.

Classifications:

International (IPC 8-9): B60L13/03 B60L13/10 E01B25/00 E01B25/30 E01B9/00 H02K15/10 H02K3/04 H02K3/24 H02K3/28 H02K3/30 H02K41/00 H02K41/02 H02K41/03 H02K9/22 (Advanced/Invention); B60L13/00 H02K41/02 (Advanced/Non-invention); B60L13/00 E01B25/00 E01B9/00 H02K15/00 H02K3/00 H02K3/04 H02K3/28 H02K41/00 H02K41/02 H02K41/03 H02K9/22 (Core/Invention); B60L13/00 H02K41/02 (Core/Non-invention)
International (IPC 1-7): B60L13/00 B60L9/00 B60M1/30 B61B13/00 B61B13/08 B61B13/12 E01B25/00 E01B9/00 H02K29/02 H02K3/04 H02K3/28 H02K3/30 H02K41/00 H02K41/02 H02K9/22
CPC: B60L2200/26 H02K41/031 B60L13/03 Y10T29/4902
European: B60L13/03 H02K41/03M L60L200/26
US: 104/148LM 104/282 104/286 104/292 104/294 29/602.1 310/13 318/13.5 318/135



Family:

Publication number	Publication date	Application number	Application date
DE2320236 A1	19731115	DE19732320236	19730419
DE2320236 B2	19780629	DE19732320236	19730419
DE2320236 C3	19790215	DE19732320236	19730419
DE2337930 A1	19740207	DE19732337930	19730726
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JP49000711 A2	19740107	JP19720040245	19720421
JP49000712 A2	19740107	JP19720040246	19720421
JP49000713 A2	19740107	JP19720040247	19720421
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JP49043116 A2	19740423	JP19720088118	19720902
JP49043117 A2	19740423	JP19720088119	19720902
JP49051511 A2	19740518	JP19720095336	19720922
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JP810052 C3	19760331	JP19720040247	19720421
JP815108 C3	19760514	JP19720088119	19720902
JP839190 C3	19761225	JP19720040248	19720421
JP840225 C3	19770120	JP19720088115	19720902
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JP848282 C3	19770309	JP19720088118	19720902
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Priority:

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JP19720095336	19720922	JP19720110337U	19720922	DE19732320236	19730419
JP19730088118	19730902	JP19750088117	19750902		

Probable Assignee: JAPAN NATIONAL RAILWAY

Assignee(s): (std): JAPAN NATIONAL RAILWAY ; NIPPON KOKUYU TETSUDO FURUKUWA ; JAPANESE NATIONAL RAILWAYS SUM ; SUMITOMO ELECTRIC IND ; SUMITOMO DENKI KGOYO KK ; SUMITOMO ELECTRIC INDUSTRIES ; FURUKAWA ELECTRIC CO LTD

Assignee(s): FURUKAWA ELECTRIC CO LTD JA ; JA NATI RAILWAYS JA ; FURUKAWA ELECTRIC CO ; THE FURUKAWA ELECTRIC CO ; SUMITOMO ELECTRIC INDUSTRIES LTD OSAKA ; THE FURUKAWA ELECTRIC CO LTD ; SUMITOMO ELECTRIC INDUSTRIES LTD OSAKA JP ; THE FURUKAWA ELECTRIC CO LTD TOKYO JP ; SUMITOMO ELECTRIC IND LTD ; SUMITOMO ELECTRIC INDUSTRIES LTD ; SUMITOMO ELECTRIC IND LTD JA ; NIPPON KOKUYU TETSUDO FURUKUWA DENKI KOGYO KK ; JAPANESE NATIONAL RAILWAYS SUMITOMO ELECTRIC INDUS ; JAPANESE NATIONAL BAILWAYS JA ; JAPANESE NATIONAL RAILWAYS ; JAPANESE NATIONAL BAILWAYS ; JAPANESE NATIONAL RAILWAYS JA

Inventor(s): (std): HOSODA YOSHIKADO ; MATSUI KAZUMI ; MATSUURA KENJI ; MATUURA KENJI ; NISHIKAWA TADASHIGE ; TAWARA MAKOTO ; UMEMORI TAKASHI ; UMEMORI T ; NISHIRKAWA T ; MATSUURA K ; MATSUI K ; TAWARA M ; HOSODA Y

Inventor(s): NISHIRKAWA T JA ; HOSODA YOSHIKADO HABIKINO OSAKA JP ; HOSODA YOSHIKADO HABIKINO OSAKA ; HOSODA YOSHIKADO HABIKINO ; HOSODA Y JA ; MATSUI KAZUMI TOKIO JP ; MATSUI KAZUMI TOKIO ; MATSUI K JA ; NISHIKAWA TADASHIGE YOKOHAMA JP ; NISHIKAWA TADASHIGE YOKOHAMA ; NISHIKAWA TADASHIGE TOKIO ; MATUURA KENJI TAKATSUKIS JP ; MATUURA KENJI TAKATSUKI ; MATSUURA K JA ; TAWARA MAKOTO HIRATSUKA KANAGAWA JP ; TAWARA MAKOTO HIRATSUKA KANAGAWA ; TAWARA MAKOTO HIRATSUKA ; TAWARA M JA ; UMEMORI TAKASHI MUSASHINO TOKIO JP ; UMEMORI TAKASHI MUSASHINO TOKIO ; UMEMORI T JA

91) Family number: 21111580 (US2184321A)

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Title: REGENERATIVE ELECTROMECHANICAL FREQUENCY SELECTIVE APPARATUS

Abstract: What I claim as new and desire to secure by Letters Patent of the United States is as follows: 1. Electromechanical frequency selective apparatus comprising electromagnetic frequency responsive motive means. electromagnetic Senerative means mechanically connected with and driven by said motive means, and electrical feedback connections from said generative means to said motive means. 2. Electromechanical frequency selective apparatus ccmprising electromagnetic frequency responsive motive means, and means mechanically driven by said motive means and electrically connected therewith for producing regenerative action through said motive means. 3. Electromechanical frequency, selective apparatus comprising electromagnetic frequency responsive motive means, electromagnetic generative means driven by said motive means, and connections from said generative means to said motive means including means for tuning the electrical circuit formed by said connections to the frequency of said electromagnetic frequency responsive motive means. 4. Electromechanical frequency selective apparatus comprising electromagnetic frequency responsive means including electromagnetic motive means; and electromagnetic generative means mechanically driven by said motive means and electrically connected with said motive means for regenerative action through said motive means and said generative means. 5. Electromechanical frequency selective apparatus comprising electromagnetic frequency responsive means including electromagnetic motive means constituted as a torsional pendulum device, electromagnetic generative means driven by said motive means, and connections from said generative means to said motive means including means for tuning the electrical circuit formed by said connections to the natural frequency of oscillation of said torsional pendulum device. 6. In a multiplex carrier current transmission system, electromechanical frequency selective apparatus operative in a complex magnetic field including components derived from the several carrier currents, comprising 2. plurality of electromagnetic frequency responsive devices each being constituted as a. torsional pendulum, and means for mechanically adjusting each of said devices for oscillation at a frequency corresponding to the frequency of one of said carrier currents and for responding to the component of said magnetic Held derived therefrom. '7. In a multiplex carrier current transmission system, electromechanical frequency selective apparatus operative in a complex magnetic Held including components derived from the several carrier currents, comprising a. plurality of tuned electromagnetic frequency responsive motive devices, a corresponding plurality of electromagnetic generative means individually driven mechanically by a respective one of said motive devices, and electrical feed-back connections from each of the generative means to the respective 'motive device. 8. In a multiplex _carrier current transmission system, electromechanical frequency selective apparatus operative in a complex magnetic Held including components derived from the several carrier currents, comprising a plurality of tuned electromagnetic frequefwy responsive motive aevices, a. corresponding plurality of electromagég netic generative means individually driven by a respective one of said motive devices, and' connections from each of the generative means to the respective motive device includilm means for tuning the electrical circuit formed by said connections to the frequency of the respective electromagnetic frequency responsive device. 9. In 9. multiplex carrier current transmission system, electromechanical frequency selective apparatus comprising a plurality of electromagnetic motive devices, and a corresponding plu_ rality of electromagnetic generative means mechanically actuated respectively by said motive devices and electrically connected with the respective electromagnetic motive device for regenerative action through said device and said means. 10. Electromechanical frequency selective apparatus operative in a. complex magnetic Held including components derived from several currents of diiferent frequencies, comprising a plurality of electromagnetic frequency responsive motive devices and s. corresponding plurality of electromagnetic generative means mounted together in respective pairs as torsional pendulum devices, means for producing a constant magnetic Held for said generative means, said motive devices being disposed in said complex magnetic Held and said generative means in the constant magnetic field provided therefor, and electrical connections from said generative means to the respective motive devices for producing

regenerative action. 11. Electromechanical frequency selective apparatus as set forth in claim 10 and including a source of direct current, and a circuit including a variable resistor connected from said source to each of said electromagnetic generative means for producing a variable magnetic field coactive with said constant magnetic field for determining the at rest position of the respective torsional pendulum device. 12. Electromechanical frequency selective apparatus as set forth in claim 10 and including manually adjustable means mounted on each of said torsional pendulum devices for varying the natural period of oscillation thereof and tuning said devices to respond to components of different predetermined frequencies in said complex magnetic field. 13. Electromechanical frequency selective apparatus including a torsional pendulum device formed of fiat strip members secured at opposite ends between supporting bars, and means for varying the effective length of said strip members comprising a. close-fitting sleeve member slidably mounted on said strip members adjacent one end thereof and having a. pair of arm portions extending at opposite sides of said sleeve member parallel with the edges of said strip members and in contact with the supporting bar so as to prevent oscillatory movement of said sleeve member, and means for clamping said sleeve members in selected position. 14. Electromechanical frequency selective apparatus comprising electromagnetic frequency responsive motive means and electromagnetic generative means mounted together as a torsional pendulum device, said motive means being disposed in a complex magnetic field, and responsive to components of a predetermined frequency, said generative means being disposed in a constant magnetic field, and electrical connections from said generative means to said motive means for producing regenerative action. 15. In a television receiving system for cooperation with a television transmitting system producing a complex signal current comprising a plurality of simultaneously modulated different frequency currents and a synchronizing current, electromechanical frequency separator apparatus comprising a frame structure, a laminated magnet core supported in said frame structure, 2, main winding and field windings mounted on said laminated core, a plurality of vibratable elements fixed to said frame structure and having portions thereof disposed between the poles of said laminated core, said main winding conducting the modulated different frequency currents of said complex signal current, said vibratable elements being selectively responsive to said different frequencies, an electromagnet comprising a magnet core supported in said frame structure and held windings mounted on said core, a plurality of coils pivoted with respect to said frame structure and vibratable in the field of said electromagnet, and means connecting said vibratable elements respectively with said vibratable coils whereby said coils are vibrated in the field of said electromagnet. 16. In a television receiving system for cooperation with a television transmitting system producing a complex signal current comprising a plurality of simultaneously modulated different frequency currents and a synchronizing current, electromechanical frequency separator apparatus comprising a frame structure, a laminated magnet core supported in said frame structure, 9, main winding and field windings mounted on said laminated core, a plurality of vibratable elements fixed to said frame structure and having portions thereof disposed between the poles of said laminated core, said main winding conducting the modulated different frequency currents of said complex signal current, said vibratable elements being selectively responsive to said different frequencies, an electromagnet comprising a magnet core supported in said frame structure and held windings mounted on said core, a plurality of coils mounted respectively in connection with said vibratable elements and disposed in the field of said electromagnet whereby said coils are vibrated in said field under the control of said vibratable elements. 17. In a television receiving system for cooperation with a television transmitting system producing a complex signal current comprising a plurality of simultaneously modulated different frequency currents and a synchronizing current, electromechanical frequency separator apparatus comprising a frame structure, an electromagnet having a magnet core supported in said frame structure, pole faces on said core, a plurality of coils, means for mounting said coils in connection with said vibratable elements for vibratable movement between the pole faces of said core under the control of said vibratable elements, said pole faces embracing said plurality of coils, the yoke of said magnet core being foreshortened, and a held winding mounted on said foreshortened yoke. 18. In a television receiving system for cooperation with a television transmitting system producing a complex signal current comprising a plurality of simultaneously modulated different frequency currents and a synchronizing current, electromechanical frequency separator apparatus including a plurality of vibratable elements constituting means selectively responsive to said different frequency currents, a frame structure, an electromagnet having a magnet core supported in said frame structure, pole faces on said core, an auxiliary core member disposed between the pole faces of said magnet core with twin air gaps between said pole faces and said auxiliary core, a plurality of coils arranged coaxially with said auxiliary core member for vibratable movement in said twin air gaps under the control of said vibratable elements, and means for connecting said vibratable elements individually with said coils for supporting said coils in position in said twin air-gaps.

Classifications:

International (IPC 8-9): H03H9/46 (Advanced/Invention);
H03H9/00 (Core/Invention)

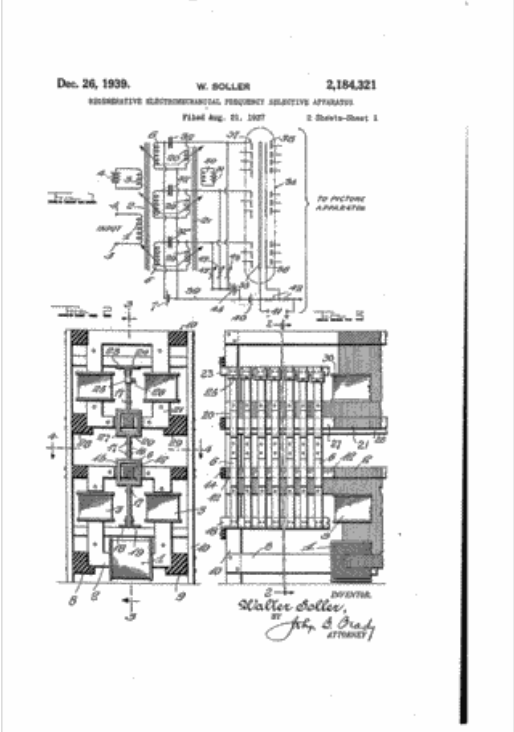
International (IPC 1-7): H03H9/46 H04Q7/00

CPC: H03H9/46

European: H03H9/46

US: 178/31 333/133 370/302

PatBase - US2184321_A



Family:

Publication number	Publication date	Application number	Application date
US2184321 A	19391226	US19370160331	19370821

Priority:

US19370160331 19370821

Probable Assignee:

WILLIAM H WOODIN JR

Assignee(s): (std):

WILLIAM H WOODIN JR

Inventor(s): (std):

WALTER SOLLER

92) Family number: 13779581 (US6392703B)

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Title: Optical apparatus for forming an object image on a sensing element

Abstract: There is provided an optical apparatus which has excellent assembly performance, can suppress an increase in cost, and attain a decrease in thickness. The optical apparatus includes a board (1) having a photographing optical system and a mechanical system mounted on its surface. A plurality of opening portions (1a, 1b, 1c) are formed in the board (1). The opening portion (1a) is sealed with a sealing member such as a glass member to allow a light beam to pass and prevent dust and the like from entering the storage space for parts between the board (1) and a shield case (49). The photographing optical system mounted on the board (1) includes a stop unit (30) for adjusting the light amount of an object image guided through the opening portion (1a), and prism-like optical members (G1, G2, G3, G4), each consisting of, e.g., a glass or plastic material and having a sculptured surface as a reflecting surface. Light emerging from the optical member (G4) is received by a solid-state image sensing element (2) mounted on the lower surface of the board (1) through the opening portion (1c). The board may be made up of a plurality of base members which are comprised of different materials joined together.

Classifications:

International (IPC 8-9): G02B7/00 G02B7/02 G02B7/04 H01L27/14 H04N5/225 H04N5/335 H04N5/357 H05K1/02 H05K1/03 H05K1/18 (Advanced/Invention);

H05K1/03 H05K1/05 H05K1/18 (Advanced/Non-invention);

G02B7/00 H04N5/225 H05K1/02 H05K1/03 H05K1/18 (Core/Invention); H05K1/03 H05K1/05 H05K1/18 (Core/Non-invention)

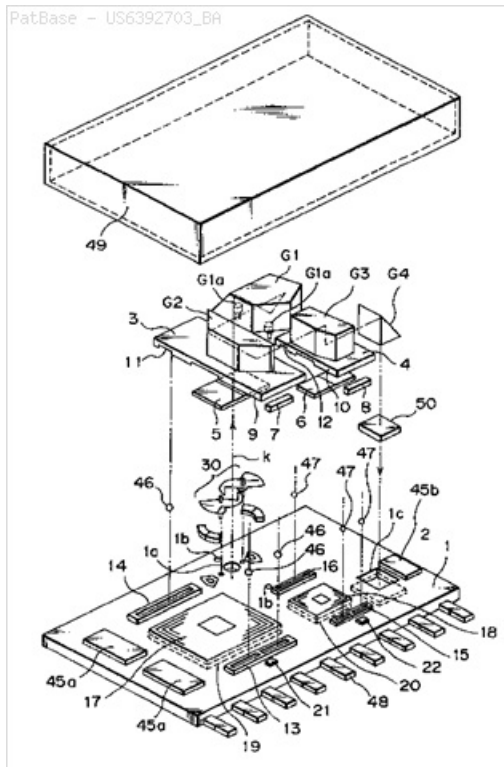
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CPC: H05K1/0306 H05K1/05 H05K1/181 H04N5/2254

European: H04N5/225C4 T05K1/03B T05K1/05 T05K1/18B

US: 348/373 348/E05.028 348/E5.028

**Family:**

Publication number	Publication date	Application number	Application date
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JP8234077 A2	19960913	JP19950065114	19950228
JP8236876 A2	19960913	JP19950065119	19950228
JP8237524 A2	19960913	JP19950065112	19950228
JP8237525 A2	19960913	JP19950065113	19950228
JP8237553 A2	19960913	JP19950065105	19950228
US6392703 BA	20020521	US19960607177	19960226

Priority:

JP19950065105 19950228	JP19950065112 19950228	JP19950065119 19950228
JP19950065114 19950228	JP19950065113 19950228	

Probable Assignee: CANON INC**Assignee(s):** (std): CANON KK**Assignee(s):** CANON INC ; CANON KABUSHIKI KAISHA**Inventor(s):** (std): KIMURA KENICHI ; KURIHASHI TOSHIYA ; OGURA SHIGEO ; TAKEDA NOBUHIRO ; UCHINO YOSHIHIRO ; YANAI TOSHIKAZU**93) Family number: 13779584** (US6498624B)

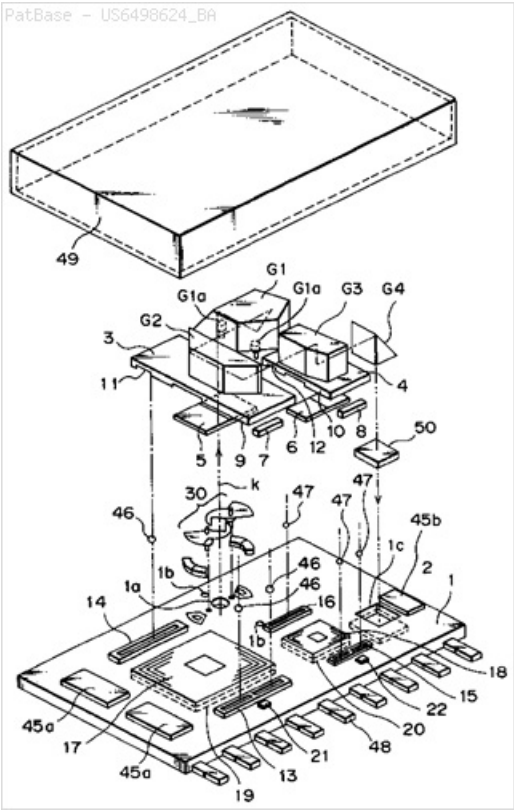
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Title: Optical apparatus and image sensing apparatus mounted on the same surface of a board

Abstract: There is provided an optical apparatus which has excellent assembly performance, can suppress an increase in cost, and attain a decrease in thickness. The optical apparatus includes a board (1) having a photographing optical system and a mechanical system mounted on its surface. A plurality of opening portions (1a, 1b, 1c) are formed in the board (1). The opening portion (1a) is sealed with a sealing member such as a glass member to allow a light beam to pass and prevent dust and the like from entering the storage space for parts between the board (1) and a shield case (49). The photographing optical system mounted on the board (1) includes a stop unit (30) for adjusting the light amount of an object image guided through the opening portion (1a), and prism-like optical members (G1, G2, G3, G4), each consisting of, e.g., a glass or plastic material and having a sculptured surface as a reflecting surface. Light emerging from the optical member (G4) is received by a solid-state image sensing element (2) mounted on the lower surface of the board (1) through the opening portion (1c).

Classifications:

International (IPC 8-9): G02B13/00 G02B17/04 G02B7/02 G02B7/09 G03B13/32 G03B3/02 H01L27/14 H04N5/225 H04N5/232 H04N5/335 H04N5/359 (Advanced/Invention); G02B7/09 G03B13/32 G03B3/00 H04N5/232 (Core/Invention)
International (IPC 1-7): G02B7/02 G02B7/09 G03B13/32 G03B3/02 H01L27/14 H04N5/225 H04N5/232 H04N5/335
CPC: G02B13/0055 G02B13/009 G02B17/04 H04N5/2253 H04N5/2254
US: 348/220 348/220.1 348/335 348/360 348/E05.027 348/E05.028 348/E5.027 348/E5.028



Family:

Publication number	Publication date	Application number	Application date
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JP8234073 A2	19960913	JP19950065104	19950228
JP8237530 A2	19960913	JP19950065107	19950228
JP8237554 A2	19960913	JP19950065106	19950228
JP8237555 A2	19960913	JP19950065108	19950228
JP8237556 A2	19960913	JP19950065111	19950228
US6498624 BA	20021224	US19960607178	19960226

Priority:

JP19950065104 19950228 JP19950065106 19950228 JP19950065108 19950228
JP19950065111 19950228 JP19950065107 19950228

Probable Assignee: CANON INC

Assignee(s): (std): CANON KK

Assignee(s): CANON INC ; CANON KABUSHIKI KAISHA

Inventor(s): (std): KIMURA KENICHI ; KURIHASHI TOSHIYA ; OGINO HIROYUKI ; OGURA SHIGEO ; TAKEDA NOBUHIRO ; UCHINO YOSHIHIRO ; YANAI TOSHIKAZU

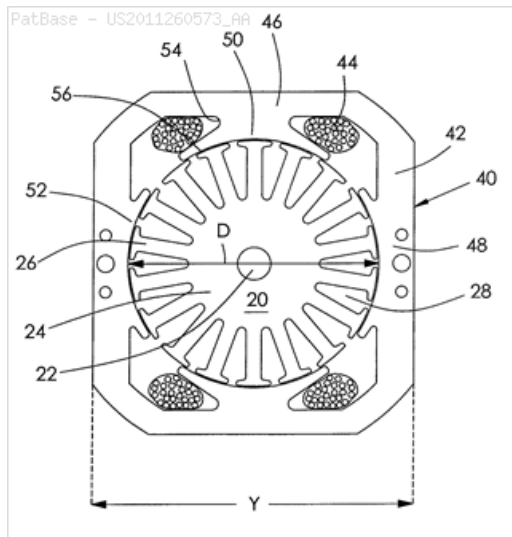
94) Family number: 49809598 (US2011260573A) © PatBase

Title: ELECTRIC MOTOR

Abstract: An electric motor has a rotor, a stator and brushes. The rotor has a shaft, a rotor core fixed to the shaft and having a plurality of segments, and rotor winding units wound about the teeth and connected to the commutator segments. Each of the rotor winding units is connected to a pair of adjacent commutator segments. At least one of the rotor winding units has at least two coils connected in series. Each coil has at least two subcoils directly connected in series and separated from each other by at least one tooth. An initial subcoil and a final subcoil of each coil are respectively connected to a pair of segments.

Classifications:

International (IPC 8-9): H02K1/14 H02K1/26 H02K23/26 H02K23/38 H02K23/46 H02K3/00 H02K3/28 H02K5/00 (Advanced/Invention)
CPC: H02K23/30
European: H02K23/30
US: 310/184 310/198 310/208 310/208P



Family:

Publication number	Publication date	Application number	Application date
CN102237733 A	20111109	CN201010159632	20100423
CN102237733 B	20150325	CN201010159632	20100423
DE102011018258 A1	20111110	DE201110018258	20110420
DE102011018258 A8	20120524	DE201110018258	20110420
IN00572KO2011 A	20120525	IN2011KO00572	20110421
JP2011234618 A2	20111117	JP20110109870	20110422
JP5825841 B2	20151202	JP20110109870	20110422
US2011260573 AA	20111027	US20110092579	20110422
US8766504 BB	20140701	US20110092579	20110422

Priority:

CN201010059632 20100423 CN201010159632 20100423

Probable Assignee: JOHNSON ELECTRIC SA

Assignee(s): (std): JOHNSON ELECTRIC SA ; PAN JI CHENG ; LIU BAO TING ; ZHANG GUO DONG ; JOHNSON ELECTRIC SHENZHEN CO LTD ; JOHNSON ELECTRIC SHENZHEN CO ; CHAI JI DONG

Assignee(s): JOHNSON ELECTRIC INT AG ; JOHNSON ELECTRIC S A

Inventor(s): (std): ZHANG JI DONG ; GUODONG ZHANG ; JIDONG CHAI ; JICHENG PAN ; BAOTING LIU ; LIU BAOTING ; CHAI JIDONG ; PAN JICHENG ; ZHANG GUODONG ; ZHI DONG CHAI ; ZHI CHENG PANG ; GUO DONG ZANG ; ZHANG GUO DONG ; CHAI JI DONG ; LIU BAO TING ; PAN JI CHENG

Agent(s): UESUGI HIROSHI; OHTSUKA FUMIAKI; SUDA HIROYUKI; KUMAKURA YOSHIO; NISHIJIMA TAKAKI; MUNCY GEISSLER OLDS AND LOWE PC

95) Family number: 63371609 (US2018006512A)

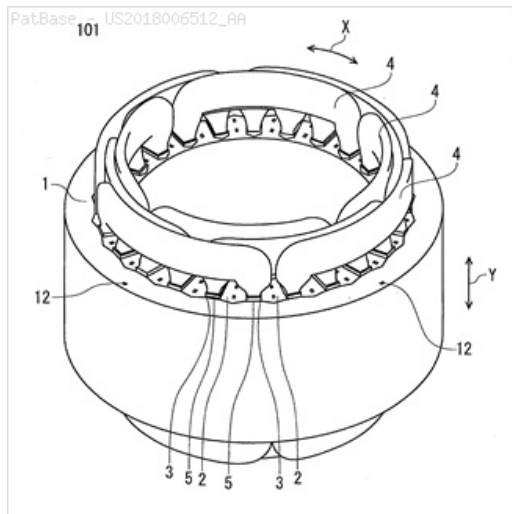
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Title: ARMATURE AND ROTATING ELECTRIC MACHINE

Abstract: Provided are: a back yoke portion formed in an annular shape; a plurality of tooth portions arranged annularly on an inner periphery of the back yoke portion and forming a plurality of slots that are spaced apart in a circumferential direction and open on an outer peripheral side, the plurality of tooth portions being fitted to an inner peripheral surface of the back yoke portion; a coil housed in the plurality of slots; and a wedge disposed between the coil and the back yoke portion, at an opening of each of the plurality of slots.

Classifications:

International (IPC 8-9): H02K1/16 H02K1/18 H02K3/34 H02K3/487 H02K3/52 (Advanced/Invention); H02K15/02 H02K3/14 (Advanced/Non-invention)
CPC: H02K1/148 H02K3/487 H02K3/345 H02K3/522 H02K3/14 H02K15/026 H02K3/325 H02K1/18 H02K1/16



Family:

Publication number	Publication date	Application number	Application date
CN107210632 A	20170926	CN201680007383	20160129

DE112016000898 T5	20171116	DE201611000898T	20160129
JP2016136384 A1	20170427	JP20170502007T	20160129
JP6328319 B1	20180523	JP20170502007T	20160129
US2018006512 AA	20180104	US20160541976	20160129
WO16136384 A1	20160901	WO2016JP52656	20160129

Priority:

JP20150034757 20150225 WO2016JP52656 20160129

Probable Assignee: MITSUBISHI ELECTRIC CORP

Assignee(s): (std): MITSUBISHI ELECTRIC CORP

Inventor(s): (std): TSUIKI HIRONORI ; KAWAMURA KOJI ; MASUDA TAKATOSHI

Agent(s): MURAKAMI KEIGO ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

96) Family number: 4928616 (US5081384A)

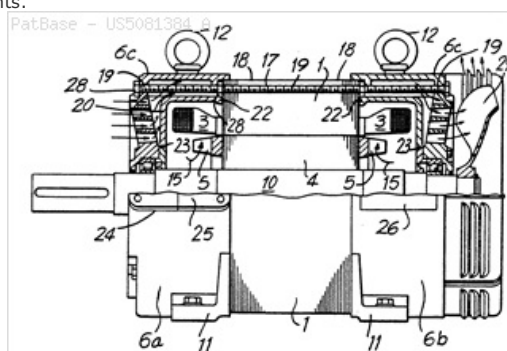
© PatBase

Title: COOLED ELECTRIC MOTOR PROTECTING COMPONENTS FROM COOLANT

Abstract: A cooled electric motor comprising a releasable sealing cover element for protecting electrical components, in particular, coil winding heads located in end spaces between opposite end faces of a stator plate pack and respective bearing shields. The cover can be removed for service in cleaner environments.

Classifications:

International (IPC 8-9): H02K5/10 H02K5/20 H02K9/06 H02K9/16 (Advanced/Invention); H02K5/10 H02K5/20 H02K9/00 H02K9/04 (Core/Invention)
International (IPC 1-7): C06B21/00 H02K1/16 H02K1/18 H02K5/04 H02K5/10 H02K5/18 H02K5/20 H02K9/00 H02K9/06 H02K9/14 H02K9/16 H02K9/18
CPC: H02K9/06 H02K9/08 H02K5/10 H02K9/14
European: H02K5/10 H02K9/06 H02K9/08 H02K9/14 H02K9/16
US: 310/57 310/63



Family:

Publication number	Publication date	Application number	Application date
AT89959 E	19930615	AT19890118461T	19891005
DE3933067 A1	19900419	DE19893933067	19891004
DE3933067 C2	19911024	DE19893933067	19891004
DE58904482 D1	19930701	DE19895004482	19891005
DK500289 A	19900412	DK19890005002	19891010
DK500289 A0	19891010	DK19890005002	19891010
EP0363815 A1	19900418	EP19890118461	19891005
EP0363815 B1	19930526	EP19890118461	19891005
ES2041930 T3	19931201	ES19890118461T	19891005
FI101841 B	19980831	FI19890004715	19891005
FI894715 A	19900412	FI19890004715	19891005
FI894715 A0	19891005	FI19890004715	19891005
JP2219433 A2	19900903	JP19890262284	19891009
US5081384 A	19920114	US19890420350	19891012

Priority:

DE19883834506 19881011 DE19893933067 19891004 EP19890118461 19891005
DE19895004482 19891005 US19890420350 19891012

Probable Assignee: SCHORCH GMBH

Assignee(s): (std): SCHORCH GMBH ; SHIYORUHI GMBH

Assignee(s): SCHORCH GMBH 4050 MOENCHENGLADBACH DE ; SCHORCH GMBH A CORP OF FEDERAL REPUBLIC OF GERMANY

Inventor(s): (std): RAUSCH HARTMUTH ; RAUSCH HARTMUTH DR ING ; HARUTOMUTSUTO RAUSHIYU

Inventor(s): RAUSCH HARTMUTH DR ING W 4052 KORSCHENBROICH 2 DE ; RAUSCH HARTMUTH DR ING 4052 KORSCHENBROICH DE

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

97) Family number: 978617 (US3620286A)

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Title: CASTING METHOD

Abstract: (Claim 1) 1. A method of metal casting comprising the steps of introducing a pattern of a material, which will be gasified upon contact with the liquid metal to be cast, into a particulate mass of mold-forming material including particles of magnetizable material in an amount sufficient to rigidify said mold-forming material while the same is exposed to a magnetic field so that a mold cavity formed in said mass by introduction of said pattern will be maintained and the thus-formed mold will remain shape-retaining during exposure to said magnetic field; subjecting the thus-formed mold to said magnetic field so

as to rigidify said mold prior to introduction of metal to be cast into the same; and casting hot liquid metal into the thus-rigidified mold while gasifying said pattern.

Classifications:

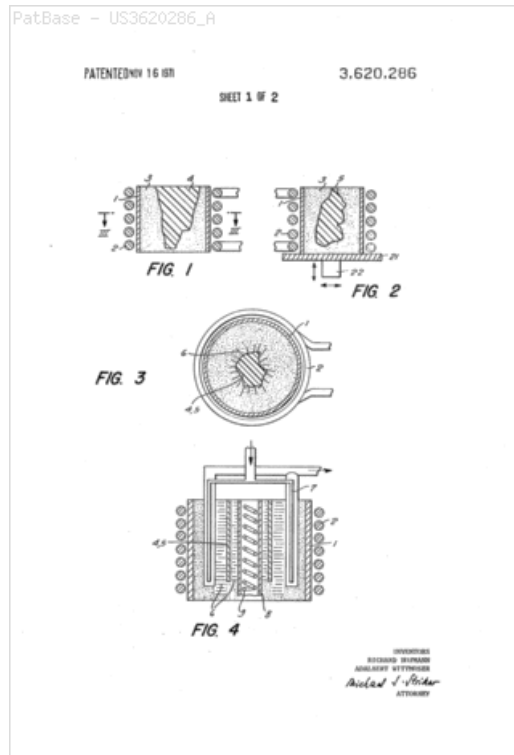
International (IPC 8-9): B22C 11/00 (Advanced/Invention); B22C 11/00 (Core/Invention)

International (IPC 1-7): B22C 9/00 B22C 9/02 B22D 27/02

CPC: Y10S 425/033 B22C 11/00

European: B22C 11/00

US: 164/34 164/466 425/3 425/DIG.33



Family:

Publication number	Publication date	Application number	Application date
US3620286 A	19711116	US19690834300	19690618

Priority:

US19690834300 19690618

Probable Assignee: WITTMOSER A

Assignee(s): (std): RICHARD HOFMANN ; WITTMOSER A

Assignee(s): ADALBERT WITTMOSER

Inventor(s): (std): HOFMANN RICHARD ; WITTMOSER ADALBERT

Inventor(s): ADALBERT WITTMOSER ; RICHARD HOFMANN

98) Family number: 1108623 (US3848720A)

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Title: PRESSURE SPRING FOR A THERMOPRINTER

Abstract: A thermoprinter for use, for example, in electronic table calculators and curve recorders, in which a thermosensitive recording strip is advanced step by step across a printing plate having a line of type of an electric resistance material, which are selectively energizable by heating current, and is pressed into contact with the printing plate during the printing of each line by a pressing device including a leaf spring extending across the printing plate with such a curvature in its unloaded condition that a convex lateral surface of the spring faces the printing plate, said leaf spring being relieved from the pressure contact when the carrier is to be advanced by an actuator forming part of the advancing mechanism and applying local bias forces in the direction away from the printing plate in points on the leaf spring situated at a short distance from either end thereof.

Classifications:

International (IPC 8-9): B41J11/18 B41J2/32

B41J25/312 (Advanced/Invention);

B41J11/00 B41J2/32 B41J25/312 (Core/Invention)

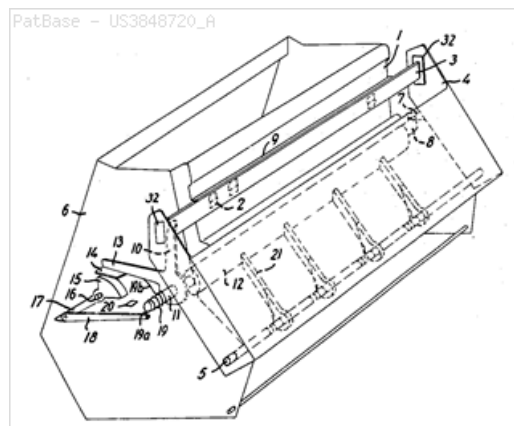
International (IPC 1-7): B41J11/08 B41J11/18 B41J3/10 B41J3/20

G01D15/10 G06K15/10

CPC: B41J25/312

European: B41J25/312

US: 101/408 101/480 101/487 346/136 347/197



Family:

Publication number	Publication date	Application number	Application date
DE2344406 A1	19740919	DE19732344406	19730903
DE2344406 B2	19750320	DE19732344406	19730903
DE2344406 C3	19751106	DE19732344406	19730903

DK129605 B	19741028	DK19730001175	19730305
DK129605 C	19750324	DK19730001175	19730305
FR2220382 A1	19741004	FR19740007383	19740305
GB1436036 A	19760519	GB19740009097	19740228
IT1010598 A	19770120	IT19740009365	19740304
JP50026551 A2	19750319	JP19740025597	19740305
JP53039140 B4	19781019	JP19740025597	19740305
US3848720 A	19741119	US19730394245	19730904

Priority:

DK19730001175 19730305

Probable Assignee: CONTEX CALCULATORS AS

Assignee(s): (std): CONTEX CALCULATORS AS

Assignee(s): CONTEX CALCULATORS AS DK ; CONTEX CALCULATORS A S ; CONTEX CALCULATORS A S BIRKEROED DAENEMARK

Inventor(s): (std): CARLSEN H ; CARLSEN H G ; CARLSEN HENNING GUNNAR ; GUNNAR CARLSEN HENNING

Inventor(s): HENNING GUNNAR CARLSEN ; CARLSEN HENNING GUNNAR AALBAEK DAENEMARK ; CARLSEN H DK

99) Family number: 10486639 (JP5252608A)

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Title: ELECTROMAGNETIC CONVEYOR SYSTEM

Abstract: PURPOSE:To facilitate accurate stop positioning and starting by generating thrust in an arbitrary advancing direction through utilization of magnetic force between an electromagnet on a fixed side base and two targets mounted on a magnetic levitation pallet and an intermediate sensor target. CONSTITUTION:Two targets 2A, 3A, spaced apart by a distance A, and an intermediate sensor target 7 are arranged on a pallet 1. Coils 4, 5 are applied on yokes 2B, 3B mounted on a fixed base 8 through an interval B(Bnot equal to A) thus forming brakes M1, M2. A sensor 6 is located between the yokes 2B, 3B. Upon stoppage of the pallet 1 advancing in the direction (a), for example, the sensor 6 detects the sensor target 7 to produce positional information of displacement which is then amplified 9 and processed 10. A signal processor 10 excites the coils 4, 5 through current amplifiers 11, 12 to stop the pallet 1 at a regular position without reciprocating the pallet 1 and delivers pulses only to one amplifier at the time of starting 12. According to the constitution, the pallet can be stopped at an accurate position and started easily.

Classifications:

International (IPC 8-9): B60L13/03 B65G43/00

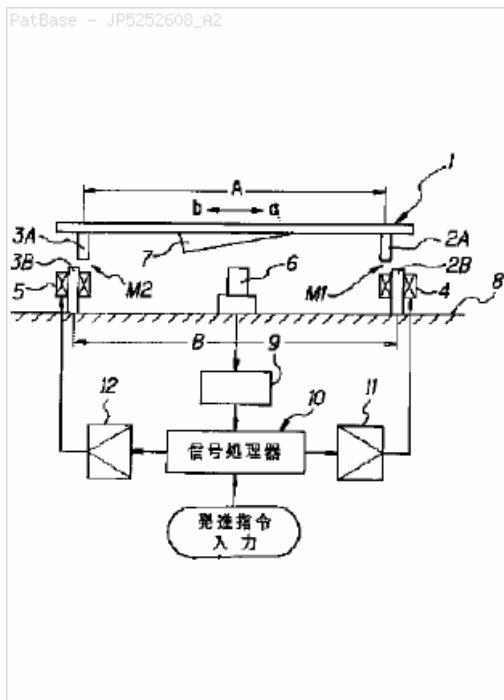
B65G54/02 (Advanced/Invention);

B65G43/00 (Advanced/Non-invention);

B60L13/00 B65G43/00 B65G54/00 (Core/Invention);

B65G43/00 (Core/Non-invention)

International (IPC 1-7): B60L13/02 B65G43/00 B65G54/02



Family:

Publication number	Publication date	Application number	Application date
JP5252608 A2	19930928	JP19920048970	19920306

Priority:

JP19920048970 19920306

Probable Assignee: EBARA CORP

Assignee(s): (std): EBARA CORP

Inventor(s): (std): MORI SATOSHI ; SHINOZAKI HIROYUKI

100) Family number: 2732645 (DD216503A)

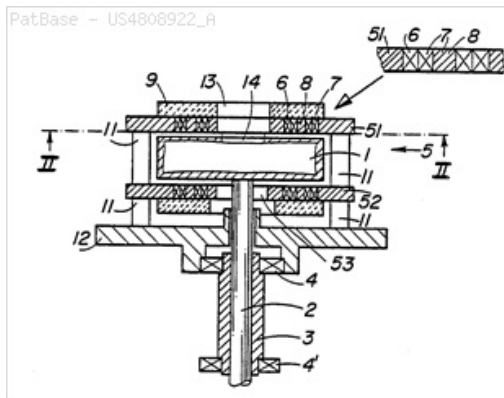
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Title: EINRICHTUNG ZUR VERSTELLUNG VON SCHALTAFFELN DEVICE FOR THE ADJUSTMENT OF THE SHUTTERING BOARDS (Machine translation)

Abstract: Source: DD216503A [DE] [Source: Claim 1] 1. Einrichtung zur Verstellung von Schalttafeln bei Gleitbau- werken, beispielsweise zur Einhaltung projektiierter Wand- dicken oder lichter Abstaende von Wandungen bei der Er- richtung von monolithischen Bauwerken in Gleitbauweise, wobei Stelleinrichtungen zur parallelen Verstellung der Schalttafein zur

Machine translation: [Source: claim 1] 1 device for the adjustment of the shuttering boards hei Gleitbau works, projected wall thick, for example, to comply with or lights distances from walls in the experience direction of monolithic structures in mechanical design, using site facilities for parallel adjustment of the Schaltafein the application, characterised by the fact that a sufficient number of lift brackets in the Portugal mungsbereich the wall's two mobile Hall standing probe calibrated to the setpoint of the distances to be corrected (11) by Messwertaufnahme (12) -1. lie and preferably on one on the lift bracket yoke - Steering-mounted rigid frame connected that is also at least one half of the scarf skin (6) horizontally movable arranged and connected with the above-mentioned adjustment device, which has (12) in connection ihrer-hand is a measured value processing facility with the measured value.

International (IPC 1-7): E04G11/22

**Family:**

Publication number	Publication date	Application number	Application date
DE3544967 A1	19870625	DE19853544967	19851219
DE3544967 C2	19871126	DE19853544967	19851219
GB2184846 A1	19870701	GB19860030388	19861219
GB2184846 B2	19900124	GB19860030388	19861219
GB8630388 A0	19870128	GB19860030388	19861219
SE460231 B	19890918	SE19860005403	19861216
SE460231 C	19900125	SE19860005403	19861216
SE8605403 A	19870620	SE19860005403D	19861216
SE8605403 A0	19861216	SE19860005403	19861216
SE8605403 L	19870620	SE19860005403	19861216
US4808922 A	19890228	US19860944257	19861218

Priority:

DE19853544967 19851219

Probable Assignee: DRAEGERWERK AG**Assignee(s):** (std): DRAEGERWERK AG

Assignee(s): DRAEGERWERK AG 2400 LUEBECK DE ; DRAEGERWERK AKTIENGESELLSCHAFT ; DRAGERWERK AG ; DRAGERWERK AKTIENGESELLSCHAFT ; DRAGERWERK AKTIENGESELLSCHAFT MOISLINGER ALLEE ; DRAGERWERK AKTIENGESELLSCHAFT ; DREGERWERK AG

Inventor(s): (std): ALBARD A S ; ALBARD A SCATO ; ALBARD A SCATO DIPL ING ; EDER A ; EDER ALFRED ; EDER ALFRED PROF DR ING

Inventor(s): EDER ALFRED PROF DR ING 8904 WULFERTSHAUSEN DE ; S ALBARD A ; SCATO ALBARD A ; ALBARD A SCATO DIPL ING 2061 GROSS SCHENKENBERG DE ; ALFRED EDER ; A EDER

102) Family number: 30889670 (US5319270A)

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Title: ELECTRIC MOTOR

Abstract: An electric motor used for example in a magnetic disk drive, includes a rotor having a hub on which the magnetic disk is mounted, and an annular driving permanent magnet, and rotating together with a rotary shaft, and a stator disposed outside the rotor, having a core and coils wound on the core. A signaling permanent magnet for detecting the rotary angle or the rotational speed of the rotor may be provided on the radially inner side of the driving permanent magnet. Part of the outer periphery of the stator core may be retracted radially inward or cut away to form a concavity or an open part. A magnetic shielding plate may further be provided to cover the coils, with part or the entirety of the magnetic shielding plate being positioned closer to the rotary shaft than the outermost periphery of the rotor to prevent the escape of the rotor in the direction of the rotary shaft. The stator core may be provided, at its inner extremities, bent portions extending in the direction parallel with the rotary shaft, and away from the hub. Alternatively, the midpoint of the stator core may be positioned farther away from the hub than the midpoint of the driving permanent magnet.

Classifications:

International (IPC 8-9): G01P3/48 G11B19/20 H02K1/27 H02K11/00 H02K21/16 H02K21/24 H02K29/08 H02K29/14

H02K41/02 (Advanced/Invention);

H02K7/14 (Advanced/Non-invention);

G01P3/42 H02K1/14 H02K1/27 H02K11/00 H02K21/16 H02K29/06

H02K29/12 H02K29/14 H02K41/02 H02K7/14 (Core/Invention);

H02K7/14 (Core/Non-invention)

International (IPC 1-7): G01P3/48 G11B19/20 G11B5/0166

H02K1/06 H02K1/12 H02K1/14 H02K1/27 H02K11/00 H02K21/12

H02K21/14 H02K21/16 H02K21/24 H02K29/08 H02K29/12

H02K29/14 H02K7/14

CPC: H02K11/01 H02K11/21 H02K11/215 H02K11/33 H02K41/02

H02K7/14 H02K21/16 H02K29/08 H02K29/14

European: H02K11/00 H02K11/00B H02K11/00F1 H02K11/00F1B

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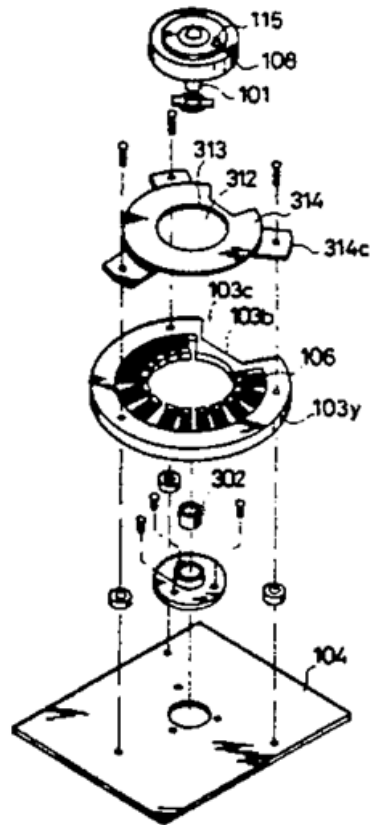
T02K11/00F1 T02K7/14

US: 310/156 310/156.05 310/216 310/216.054 310/216.055

310/216.073 310/216.091 310/216.096 310/216.108 310/216.127

310/254 310/256 310/67.00R 310/67R 310/68.00B 310/68B

360/99.04

**Family:**

Publication number	Publication date	Application number	Application date
DE4117801 A1	19911205	DE19914117801	19910530
DE4117801 C2	19940317	DE19914117801	19910530
DE4143440 C2	19990826	DE19914143440	19910530
GB2245108 A1	19911218	GB19910011767	19910531
GB2245108 B2	19941214	GB19910011767	19910531
GB2276771 A1	19941005	GB19940007867	19940420
GB2276771 B2	19941214	GB19940007867	19940420
GB9111767 A0	19910724	GB19910011767	19910531
GB9407867 A0	19940615	GB19940007867	19940420
HK162095 A	19951027	HK19950001620	19951019
HK162195 A	19951027	HK19950001621	19951019
JP2601014 B2	19970416	JP19900302939	19901108
JP4017676 U1	19920213	JP19900058015U	19900601
JP4042761 A2	19920213	JP19900147696	19900606
JP4147471 A2	19920520	JP19900272676	19901011
JP4178153 A2	19920625	JP19900302939	19901108
TH17185 B	20040630	TH19911000685	19910523
TH19289 A	19960621	TH19911000685	19910523
TH19377 B	20060127	TH19981002517	19980703
TH35738 A	19991105	TH19981002517	19980703
US5319270 A	19940607	US19910708884	19910530
US5410201 A	19950425	US19940186705	19940125

Priority:

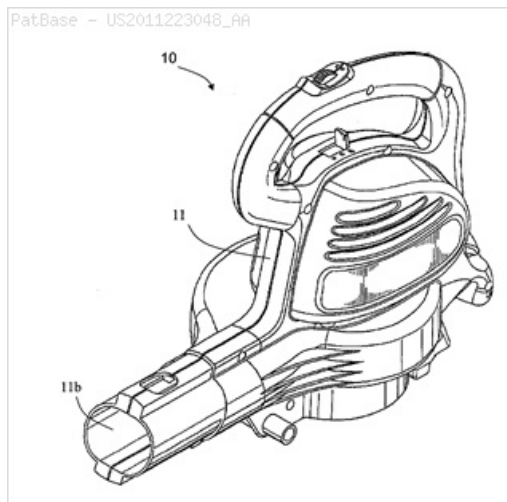
JP19900058015U	19900601	JP19900147696	19900606	JP19900272676	19901011
JP19900302939	19901108	DE19914117801	19910530	DE19914143440	19910530
US19910708884	19910530	GB19910011767	19910531	US19940186705	19940125

Probable Assignee: MITSUBISHI ELECTRIC CORP**Assignee(s):** (std): MITSUBISHI ELECTRIC CORP**Assignee(s):** MITSUBISHI DENKI K K ; MITSUBISHI DENKI K K TOKIO TOKYO JP ; MITSUBISHI DENKI KABUSHIKI KAISHA ; MITSUBISHI DENKI KK**Inventor(s):** (std): SERIZAWA YUJI ; HORII TOMOHIKO ; TATSUYA TOSHIROU ; TETSUYA TANAKA ; TOSHIHIKO HORII ; YUZI SERIZAWA ; TATSUTANI TOSHIO ; TANAKA TETSUYA ; SERIZAWA YUZI ; HORII TOSHIHIKO ; TOSHIO TATSUTANI**Inventor(s):** HORII TOSHIHIKO NAKATSUGAWA GIFU JP ; SERIZAWA YUZI NAKATSUGAWA GIFU JP ; TANAKA TETSUYA NAKATSUGAWA GIFU JP ; TATSUTANI TOSHIO NAKATSUGAWA GIFU JP

Abstract: A blower assembly for a leaf blower has a case, a motor, an impeller driven by the motor, and an axial fan driven by the motor. The axial fan and the impeller are connected to opposite ends of the motor. The case has an air inlet, an air outlet and an air channel communicating the air inlet with the air outlet. The impeller is disposed inside the air channel to move air through the air channel from the air inlet to the air outlet. The axial fan is arranged to generate an axial flow of air towards the motor to cool the motor.

Classifications:

International (IPC 8-9): F04B17/00 F04B35/04 F04D25/08
F04D25/16 F04D29/44 F04D29/58 F04D29/60 (Advanced/Invention)
CPC: F04D25/082
European: F04D25/08B
US: 310/198 415/206 415/206S 417/423.1 417/423.100P 417/423.7



Family:

Publication number	Publication date	Application number	Application date
CN102192166 A	20110921	CN201010123265	20100312
CN102192166 B	20160330	CN201010123265	20100312
US2011223048 AA	20110915	US20110045139	20110310
US8911221 BB	20141216	US20110045139	20110310

Priority:

CN201010123265 20100312

Probable Assignee: JOHNSON ELECTRIC SA

Assignee(s): (std): CHENG ON HING ; JOHNSON ELECTRIC SA ; JOHNSON ELECTRIC SHENZHEN CO ; JOHNSON ELECTRIC SHENZHEN CO LTD ; PAN JICHENG ; ZHANG CHUN LEI

Inventor(s): (std): PAN JICHENG ; ZHANG CHUN LEI ; CHENG ON HING ; JICHENG PAN ; CHUNLEI ZHANG ; ANXING ZHENG

Inventor(s): ZHANG CHUNLEI ; ZHENG ANXING

Agent(s): MUNCY GEISSLER OLDS AND LOWE PC

104) Family number: 22106697 (US2730953A)

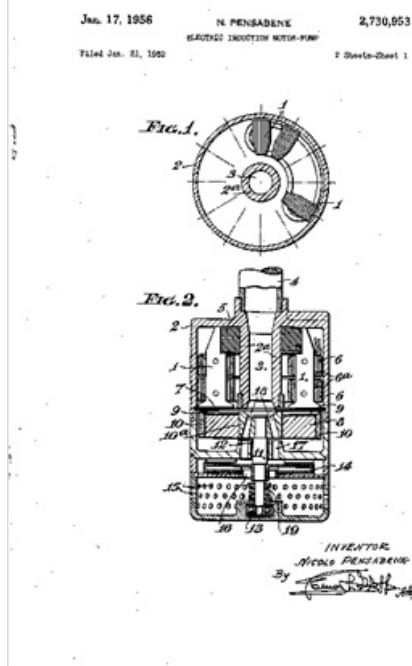
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Title: ELECTRIC INDUCTION MOTOR-PUMP

Abstract: 705,937. Induction machines. PENSABENE, N. Dec. 19, 1951 [June 6, 1951], No. 13420/51. Class 35 A single or polyphase squirrel cage motor has a number of laminated stator field magnets arranged in a ring with their longitudinal axis parallel to the axis of rotation and a disc rotor supported adjacent to the ends of the stator poles (or between two stators), each stator core carries different coils disposed in different positions along the length of the core. Fig. 2 shows a pump having impellers 14 driven by a polyphase induction motor having a solid iron disc rotor 8 with cage formed of radial bars 9 and rings 10, 10a and a stator mounted sideways of the rotor 8. The stator consists of twelve laminated electromagnets 1 the ends of which remote from the rotor are magnetically joined by a laminated annular core 5. A water-tight diaphragm 7 is interposed in the axial air gap between the stator and rotor. Water is pumped from inlet 16 via pump outlet 17, passages 18 in ring 10a, conduit 3 and finally to delivery pipe 4. Alternatively, as shown in Fig. 3, the rotor 8 is mounted between two stators having laminated cores 1 which are supported axially end-to-end. When two rotors are provided in a single-phase motor, one of the rotors may be free to rotate idly so that it can be easily started by any means and when it is near synchronous speed the other rotor will be able to start against a large torque owing to the strong rotating field produced by the first rotor. The stator pole pieces may fit together to form a continuous pole surface.

Classifications:

International (IPC 8-9): F04D13/06 H02K17/12 H02K17/16 H02K5/12
H02K5/128 H02K7/08 (Advanced/Invention);
F04D13/06 H02K17/02 H02K17/16 H02K5/12
H02K7/08 (Core/Invention)
International (IPC 1-7): F04D13/06 H02K17/32 H02K5/12
CPC: F04D13/0646 F04D13/0666 H02K5/12 H02K5/1282 H02K7/08
H02K7/085 H02K17/12 H02K17/16
European: F04D13/06C F04D13/06G H02K17/12 H02K17/16
H02K5/12 H02K5/128B H02K7/08 H02K7/08D
US: 310/268 310/66 417/357 417/410.1 417/420

**Family:**

Publication number	Publication date	Application number	Application date
FR1087184 A	19550222		19531116
GB705937 A	19540324	GB19510013420	19510606
NL89022 C	00000000		00000000
US2730953 A	19560117	US19520267330	19520121

Priority:

GB19510013420 19510606

Probable Assignee: NICOLO PENSABENE**Assignee(s):** (std): NICOLO PENSABENE**Inventor(s):** (std): NICOLO PENSABENE ; PENSABENE NICOLO**105) Family number: 29654707 (GB497057A)**

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Title: Improvements in arrangements for measuring differences of potential

Abstract: [Class 37] [Also in Groups XXXV and XL] An arrangement for measuring differences of potential comprises condenser apparatus having two sets of inducing plates S, T connected to the potential source 10, and two sets of induced plates K, N connected to a measuring instrument 27 for inducing by rotational means causing periodical constant frequency variations in the capacitive coupling between the inducing and induced sheets, current alternations which actuate the measuring instrument, the instrument circuit including inductance 28 which at the frequency of the generated currents has an inductive impedance substantially equal to the capacitive impedance between the inducing and induced plates in their position of maximum capacity, the inducing plates being shunted by capacity 13 which is a multiple of the maximum capacity between the inducing and induced plates, and the input circuit including sufficient resistance 14 for substantially preventing flow of current between the inducing plates and the source. As shown in Fig. 1, the induced plates of the condenser are rotated by a constant speed motor 16 which also drives a rectifying commutator 22 connected between the rotor slip-rings 17 connected to the induced condenser plates and the measuring instrument. In a modification, coupling condensers with fixed and rotary plates and a dry full wave rectifier, replace the slip rings and commutator. In this case, when measuring small differences of potential such as would be obtained from a pyrometer thermo-couple, a standard cell or other constant voltage source may be connected in series in the input circuit to increase the output current and thereby reduce the resistance of the rectifier, the measuring instrument being supplied with an opposing current or otherwise biased to correct for this additional voltage. Fig. 12 shows a modified condenser in which both inducing plates S<1> ... T<2> and induced plates K<1> ... N<2> are stationary and between them rotate insulated coupling plates V<1> ... V<2> and interconnected shielding plates X<1> ... Y<2>. The output circuit is connected to the moving coils 170 of a Kelvin balance, the stationary coils 190 being supplied from a constant voltage generator 180 driven by the condenser driving motor 170<1> and giving the same frequency as the condenser. The phase of the generated current is adjusted by varying the angular position of the stator. A contact 200 carried by the bracket 194 of the balance co-operates with fixed contacts 201 in the circuit of a reversible motor 198 which acts on an arm 195 spring coupled to the balance bracket to move the bracket to its neutral position and to give a current reading. Fig. 13 shows an arrangement for measuring X-ray intensities. An ionization chamber 202 located in the path of the rays has an outer cylindrical electrode 205 and an inner electrode 207 spaced from the other by insulating pillars 208. The inner electrode is connected to the high potential end of a potentiometer resistance 231 and the outer electrode is connected to a circuit giving a constant direct current voltage, such circuit including an alternating current source 233, rectifiers 234, voltage doubling condensers 235 and series connected glow tubes 239 acting as voltage regulators. The current through the ionization chamber produces a voltage drop in the resistance 231 which is proportional to the intensity of the X-rays traversing the chamber. The terminals of the resistance 231 are connected to the inducing plates of a rotary condenser 270, the induced plates being connected to the coil 253 of a watt-hour meter 251 in series with the primary winding of a transformer 280 supplying a measuring instrument circuit 140. The other coil 254 of the meter motor is fed from a constant voltage generator 271 similar to the machine 180 described in connection with Fig. 12. The recording dial 258 of the meter has a cam 263 co-operating with contacts 264 to give an alarm or to disconnect the X-ray tube when the predetermined X-ray dosage has been given. The intensity of the rays may be indicated by a pivoted pointer 298 carrying a magnet 295 which is deflected in proportion to the speed of the disc 252. In order to reduce the value of the inductance required in the circuit, the capacity of the rotary condenser and the frequency of the output current should be as great as possible. The stator, Fig. 5, comprises twenty segments 75 carried by insulating end plates 77, 78, each segment having nineteen plates, and the rotor has similar segments 63 abutting against insulating rings 61, 62 carrying slip-rings 68, 70. The capacity between the rotor

plates may be reduced by providing cavities 99 on opposite sides of the yokes 64 of the segments or by making the yokes of insulating material. The cylindrical sheet 93 enclosing the stator may comprise an insulating layer and an outer conducting layer and thus acts as the shunting capacity across the stator plates.

Classifications:

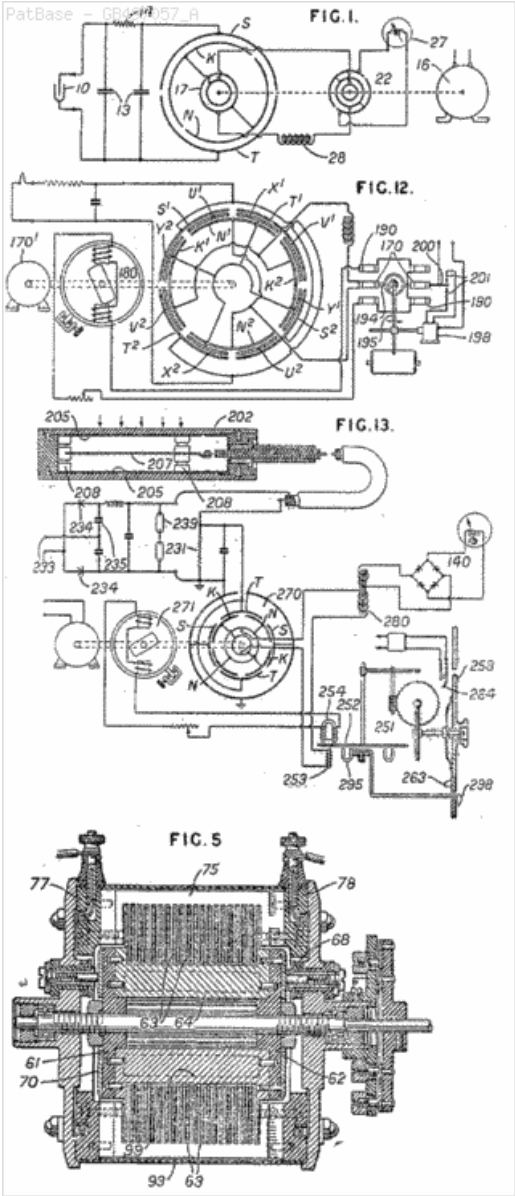
International (IPC 8-9): G01R19/10 (Advanced/Invention);

G01R19/10 (Core/Invention)

International (IPC 1-7): G01R19/18

CPC: G01R19/10

European: G01R19/10



Family:

Publication number	Publication date	Application number	Application date
GB497057 A	19381207	GB19370015780	19370607

Probable Assignee: EMIL HENRY GREIBACH

Assignee(s): (std): EMIL HENRY GREIBACH

106) Family number: 2378708 (US4592037A)

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Title: Device for displacing a pickup head in multi-axial directions

Abstract: A device for displacing and supporting a driven member pickup head in all the coordinate axis directions of three coordinate axes perpendicular to one another. The device includes at least one support member formed of viscoelastic material for supporting the driven member on a frame. The support member is tensioned and connected between the driven member and the frame and has one end affixed to the driven member disposed in a plane perpendicular to an arbitrarily selected one coordinate axis of the three coordinate axis directions and the other end affixed to the frame disposed in a plane perpendicular to the one coordinate axis. The pickup actuator also includes a device for generating lines of magnetic force in two directions perpendicular to each other, a first coil and a second coil secured to the driven member and having a first path of current and a second path of current respectively disposed in one direction of the magnetic lines of force and perpendicular to each other in a plane perpendicular to the one direction of the magnetic lines of force, a third coil secured to the driven member and having a third path of current disposed in the other direction of the lines of magnetic force and parallel to one of the first path of current and the second path of current in a plane perpendicular to the other direction of the lines of magnetic force, whereby the pickup holder can be independently driven for movement in three axis directions perpendicular to one another.

Classifications:

International (IPC 8-9): G02B26/10 G11B7/00 G11B7/08 G11B7/09

G11B7/12 H02K41/035 H04R11/12 (Advanced/Invention);

G02B26/10 G11B7/08 G11B7/09 G11B7/12 H02K41/035

H04R11/00 (Core/Invention)

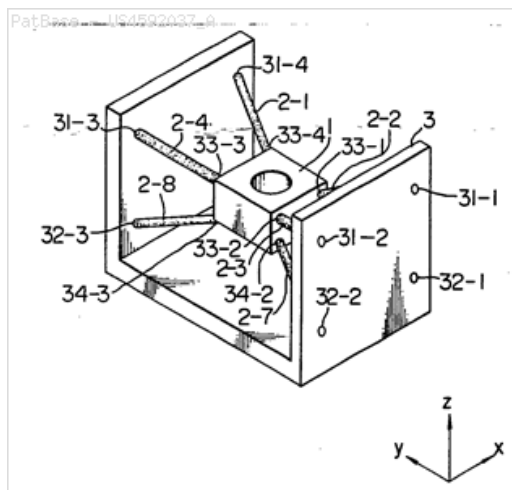
International (IPC 1-7): G02B27/17 G02B7/00 G11B7/00 G11B7/08

G11B7/12 H04R11/12

CPC: G11B7/093 G11B7/0932 H02K41/0354 H02K2201/18 G11B7/08

G11B7/09

European: G11B7/08 G11B7/09 G11B7/09D3 G11B7/09D4
H02K41/035B1 T02K201/18
US: 359/814 359/824 369/44 369/44.14 369/44.15 G9B/007.082
G9B/007.083 G9B/7.082 G9B/7.083



Family:

Publication number	Publication date	Application number	Application date
AT21294 E	19860815	AT19810305578T	19811125
CA1177167 A1	19841030	CA19810391118	19811127
DE3175073 D1	19860911	DE19813175073	19811125
EP0053476 A2	19820609	EP19810305578	19811125
EP0053476 A3	19830105	EP19810305578	19811125
EP0053476 B1	19860806	EP19810305578	19811125
JP57092441 A2	19820609	JP19800168253	19801128
JP57094939 A2	19820612	JP19800170971	19801205
US4592037 A	19860527	US19810324442	19811124

Priority:

JP19800168253 19801128 JP19800170971 19801205 EP19810305578 19811125
CA19810391118 19811127

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Assignee(s): (std): HITACHI LTD

Assignee(s): HITACHI LTD 5 1 MARUNOUCHI 1 CHOME CHIYODA KU TOKY ; HITACHI SEISAKUSHO KK ; OHNUKI HIDEO

Inventor(s): (std): OHNUKI HIDEO ; OONUKI HIDEO

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Designated states: AT CH DE GB LI

107) Family number: 308708 (US3440456A)

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Title: COMMUTATING ARRANGEMENT FOR ELECTRIC MACHINES WITH SUPERCONDUCTING ARMATURE COILS

Abstract: ABSTRACT OF THE DISCLOSURE

Two electric machines are coupled to each other by a DC circuit common to both machines to provide a coupling converter unit for AC lines. Each machine comprises a superconducting armature winding which comprises a plurality of loops. Each of the loops includes a portion which operates as a switching path which is alternately switched between the normally conducting and superconducting states. A multi-phase rotating magnetic field is provided which has a superimposed DC field and which is movable relative to the switching paths for switching the paths between the states.

Classifications:

International (ipc 8-9): H02K29/00 H02K55/00 (Advanced/Invention);

H02K29/00 H02K55/00 (Core/Invention)

International (ipc 1-7): H01V11/00 H02K13/14 H02K19/16

H02K23/00 H02K23/26 H02K23/28 H02K23/46 H02K27/02

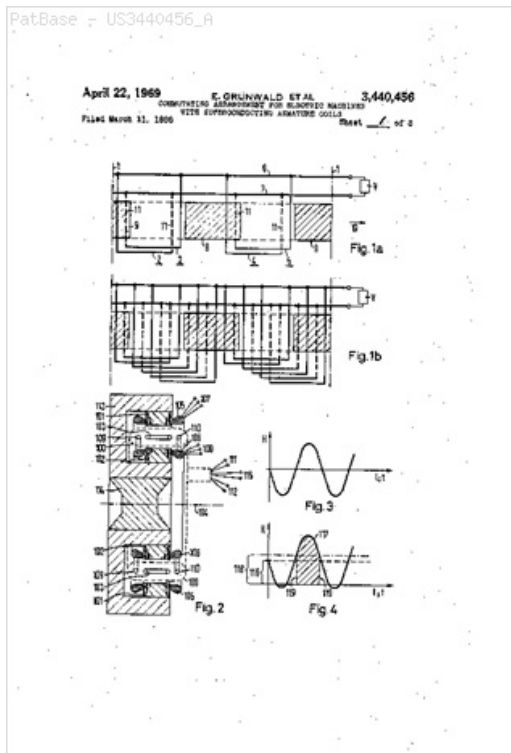
H02K29/02 H02K3/00 H02K3/02 H02K3/26 H02K31/00 H02K47/02

H02K47/04

CPC: H02K55/00 Y02E40/62

European: H02K13/00 H02K29/00 H02K55/00 Y02E40/62

US: 219/121.11 310/10 310/198 310/268 310/40.00R 310/40R
310/52

**Family:**

Publication number	Publication date	Application number	Application date
CH461654 A	19680831	CH19650017340	19651215
DE1488065 A1	19690828	DE19641488065	19641218
DE1488065 A1	19690828	DE1964S094680	19641218
DE1488065 B2	19720504	DE1964S094680	19641218
DE1488065 B2	19720504	DE19641488065	19641218
DE1488662 A1	19691211	DE19651488662	19650401
DE1488662 A1	19691211	DE1965S096318	19650401
DE1488662 B2	19731011	DE1965S096318	19650401
DE1488662 B2	19731011	DE19651488662	19650401
DE1488662 C3	19740606	DE19651488662	19650401
DE1488662 C3	19740606	DE1965S096318	19650401
DE1488666 A1	19700122	DE1965S096551	19650415
DE1488666 A1	19700122	DE19511488666	19510128
DE1488666 B2	19730927	DE19511488666	19510128
DE1488666 B2	19730927	DE1965S096551	19650415
DE1488666 C3	19740425	DE1965S096551	19650415
DE1488666 C3	19740425	DE19511488666	19510128
GB1126968 A	19680911	GB19650053723	19651217
NL6516188 A	19660225	NL19650016188	19651213
NL6516188 A1	19660225	NL19650016188	19651213
US3414743 A	19681203	US19660533549	19660311
US3440456 A	19690422	US19660533474	19660311
US3441755 A	19690429	US19650515105	19651220

Priority:

DE1964S094680 19641218 DE1965S096318 19650401 DE1965S096551 19650415

Probable Assignee: SIEMENS AG**Assignee(s):** (std): SIEMENS AG**Assignee(s):** SIEMENS AKTIENGESELLSCHAFT ; SIEMENS SCHUCKERTWERKE AG ; SIEMENS SCHUCKERTWERKE AKTIENGESELLSCHAFT ; SIEMENS 1000 BERLIN U 8000 MUENCHEN AG**Inventor(s):** (std): GRUNWALD ERICH DR ING ; GRUNWALD ERICH DR ING ; GRUNWALD ERICH ; KAFKA WILHELM ; KAFKA WILHELM DIPL ING ; KAFKE WILHELM DIPL ING ; WILHELM KAFKA ; WILHELM KAFKA DIPL ING ; WILHELM KAFKE DIPL ING ; ERICH GRUNWALD DR ING ; DIPL ING GRUNWALD ERICH DR**Inventor(s):** ERICH GRUNWALD ; KAFKE WILHELM DIPLING ; KAFKA WILHELM DIPLING ; DR GRUNWALD ERICH DIPL ING**108) Family number: 26303709** (US3619866A)

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Title: MAGNETIZABLE MASS CASTING DEVICE**Abstract:** ABSTRACT OF THE DISCLOSURE

A mold of particulate material including magnetizable particles is made shape-retaining by subjecting the shaped mold to a magnetic field of sufficient strength to fix the position of the particulate magnetizable mold-forming material. RELATED APPLICATIONS This application is a continuation of application Ser. No. 680,698, filed Nov. 6, 1967, now abandoned. B

Classifications:**International (IPC 8-9):** B22C9/06 B22C9/22 B29C33/38 B29C41/04

H01F1/03 (Advanced/Invention);

B22C9/06 B22C9/22 B29C33/38 B29C41/04

H01F1/03 (Core/Invention)

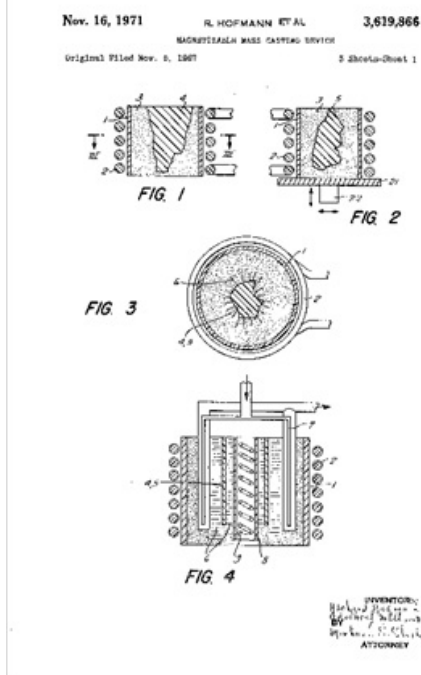
International (IPC 1-7): B22C1/00 B22C1/10 B22C3/00 B22C9/00 B22C9/02 B22C9/12 B22C9/22 B22D27/02 B29C1/02 B29C1/16 B29F H01F1/14 H01F1/34

CPC: B22C9/06 H01F1/03 Y10S425/033 B29C33/38 B22C9/061 B29C41/042 H01F1/0311 H01F1/0315

European: 31C19 B22C9/06A B29C33/38 B29C41/04B H01F1/03B4 H01F1/03B4C2

US: 164/34 164/498 164/529 18/34R 425/3 425/DIG.33

PatBase - US3619866_R



Family:

Publication number	Publication date	Application number	Application date
AT285838 B	19701110	AT19670009369	19671017
CA924865 A1	19730424	CA19670004695	19671110
CH470219 A	19690331	CH19670015313	19671101
CS150202 B2	19730904	CS19670007867	19671106
DE1301439 B	19690821	DE1966H060967	19661111
DE1558123 A1	19700319	DE19671558123	19670628
DE1558123 B2	19760205	DE19671558123	19670628
DE1558123 C3	19760923	DE1967H063131	19670628
DE1558154 A1	19700319	DE19671558154	19670411
DE1558154 B2	19750102	DE19671558154	19670411
FR1543822 A	19681025	FR19670127537	19671109
GB1196757 A	19700701	GB19670050946	19671109
NL156074 B	19780315	NL19670014618	19671027
NL6714618 A	19680513	NL19670014618	19671027
PL79256 P	19750630	PL19670123507	19671110
SE343492 B	19720313	SE19670015484	19671110
US3619866 A	19711116	US19700022125	19700331

Priority:

DE1966H060967 19661111 DE1967W043734 19670411 DE1967H063131 19670628
FR19670127537 19671109

Probable Assignee: RICHARD DIPL ING

Assignee(s): (std): HOFMANN ; HOFMANN DIPL ING RICHARD ; HOFMANN R ; HOFMANN RICHARD ; HOFMANN RICHARD DIPL ING ; HOFMANN RICHARD DIPL ING 6290 WEILBURG ; WITTMOSER ADALBERT PROF DR ING ; RICHARD DIPL ING ; WITTMOSER DR ING ADALBERT ; PROF DR ING ADALBERT WITTMOSER LAMPERTHEIM BONDSR ; WITTMOSER A ; WITTMOSER ADALBERT DR ING ; HOFMANN RICHARD K ; WITTMOSER ADALBERT

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Inventor(s): ADALBERT WITTMOSER ; DIPL ING RICHARD HOFMANN TE OBERSCHELD ; DRING ADALBERT WITTMOSER ; ING WITTMOSER ADALBERT PROF DR ; RICHARD K HOFMANN ; WITTMOSER ADALBERT PROF DR ING 6840 LAMPERTHEIM ; DR ING ADALBERT WITTMOSER

109) Family number: 68724710 (DE102016218889A1)

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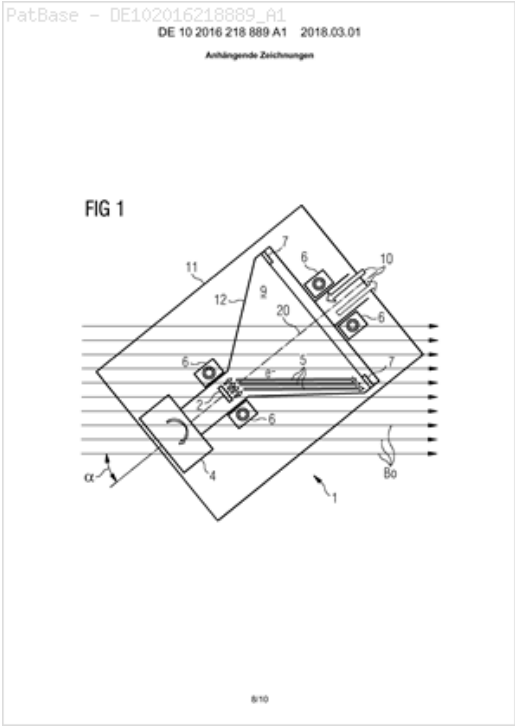
Title: MEDIZINISCHES BILDGEBUNGSSYSTEM ZUR KOMBINIERTEN MAGNETRESONANZ- UND ROENTGENBILDGEBUNG EINES UNTERSUCHUNGSOBJEKTES MIT EINEM ROENTGENSTRAHLER UND ROENTGENSTRAHLER Medical IMAGING SYSTEM FOR COMBINED MAGNETIC RESONANCE AND X-RAY IMAGING OF AN EXAMINATION OBJECT WITH AN X-RAY SOURCE AND an X-RAY SOURCE (Machine translation)

Abstract: Source: DE102016218889A1 [DE] Medizinisches Bildgebungssystem zur kombinierten Magnetresonanz- und Roentgenbildgebung eines Untersuchungsobjektes, aufweisend eine Einheit zur Magnetresonanzbildgebung und eine Einheit

zur Roentgenbildgebung, welche mechanisch miteinander derart verbunden sind, dass die Einheit zur Roentgenbildgebung in die Einheit zur Magnetresonanzbildgebung baulich integriert ist und beide eine Patientenöffnung zur Lagerung des Untersuchungsobjektes umgeben, wobei die Einheit zur Magnetresonanzbildgebung ein Magnetfeld erzeugt, wobei die Einheit zur Roentgenbildgebung einen Roentgenstrahler zur Erzeugung eines Roentgenstrahls und einen Roentgendetektor aufweist, wobei der Roentgenstrahler eine Kathode und eine rotierbar angeordnete Drehanode aufweist, wobei die Kathode auf einer Drehachse der Drehanode angeordnet ist, wobei der Roentgenstrahler derart in dem Magnetfeld angeordnet ist, dass ein von der Kathode erzeugbarer und durch das Anlegen einer Spannung aus der Kathode heraus beschleunigter Elektronenstrahl durch das Magnetfeld auf eine Brennbahn/Brennpunkt der Drehanode fokussierbar ist.

Machine translation: Medical imaging system for combined magnetic resonance and x-ray imaging of an examination object, comprising a unit for magnetic resonance imaging and a unit for x-ray imaging that are mechanically coupled to one another such that the unit for x-ray imaging in the unit for magnetic resonance imaging is integrated structurally and both a patient bore for the mounting of the inspection object, wherein the unit for magnetic resonance imaging generates a magnetic field, wherein the x-ray imaging unit for a x-ray source for generating an x-ray beam and an x-ray detector, wherein the x-ray emitter includes a cathode and an anode, wherein the cathode is rotatably arranged rotation on an axis of rotation of the rotary anode, wherein the x-ray emitters arranged in the magnetic field such that the cathode of products and by applying a voltage from the cathode by the accelerated electron beam out Magnetic field on a focal track/focal point of the rotating anode is focusable.

Classifications:
International (IPC 8-9): A61B6/00 G01R33/48
H05G1/02 (Advanced/Invention)
CPC: H05G1/02 G01R33/4812 A61B6/4417 H01J35/14 H01J35/305



Family:

Publication number	Publication date	Application number	Application date
DE102016218889 A1	20180301	DE201610218889	20160929

Priority:
DE201610218889 20160929

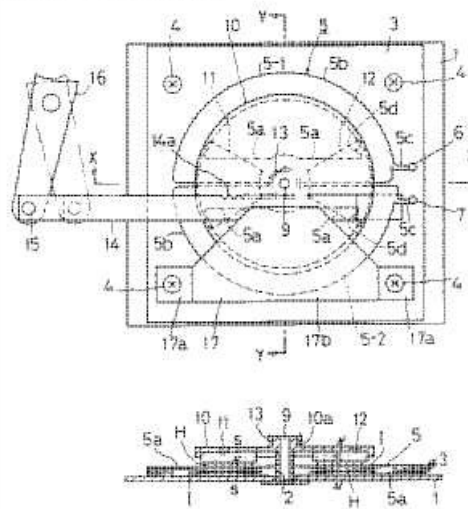
Probable Assignee: SIEMENS HEALTHCARE GMBH
Assignee(s): (std): SIEMENS HEALTHCARE GMBH
Inventor(s): (std): LEGHISSA MARTINO

110) Family number: 8752711 (JP61189163A) © PatBase

Title: MOTOR DRIVEN ACTUATOR

Abstract: PURPOSE:To reduce the thickness of the entire motor drive actuator by operating a magnetic field of a permanent magnet perpendicularly to a current flowed in a portion which is radially directed with respect to an axis of a coil. CONSTITUTION:A bearing cylinder 2 is secured to the center of a horizontal stationary yoke of rectangular plane, and a plurality of bases 3 are superposed fixedly on the upper surface of a stationary yoke 1. Coils 5 are printed in a pattern of semicircular spiral portion on the upper surfaces of the bases 3. A shaft 9 is pivotally secured into the cylinder 2, and a rotary member 10 is engaged fixedly with the shaft 9. A pair of sector-shaped permanent magnets 11, 12 are secured oppositely to the linear portion 5a of a sheet coil 5. Thus, most of lines H of magnetic force emitted from permanent magnets 11, 12 are induced to direct the elevational directions perpendicular to the flowing direction of a current I passing the linear portion 5a of the coil 5. A rack lever 14 is driven by a pinion 13 of an output member.

Classifications:
International (IPC 8-9): H02K33/16 (Advanced/Invention);
H02K33/00 (Core/Invention)
International (IPC 1-7): H02K33/16
CPC: H02K33/16
European: H02K33/16

**Family:**

Publication number	Publication date	Application number	Application date
JP61189163 A2	19860822	JP19850026190	19850215

Priority:

JP19850026190 19850215

Probable Assignee:

OHI SEISAKUSHO CO LTD

Assignee(s): (std):

OHI SEISAKUSHO CO LTD

Assignee(s):

OI SEISAKUSHO CO LTD

Inventor(s): (std):

HONMA MIKIO

111) Family number: 1569720 (US4186322A)

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Title: Electric rotary stepping motor

Abstract: An electric rotary stepping motor intended for use in watch movements comprises a stator including a coil support coaxial with the rotor, two compact coils having flat turns, and a field-closing yoke capable of magnetically blocking the rotor in a position enabling it to start up in the desired direction. The motor is made more compact, and its manufacture and assembly are simplified, by designing the coil support with two diametrically opposed arms and the coils as self-supporting elements in which the turns of the windings are joined to one another.

Classifications:

International (ipc 8-9): G04C3/16 H02K37/14 (Advanced/Invention); G04C3/00 H02K37/12 (Core/Invention)

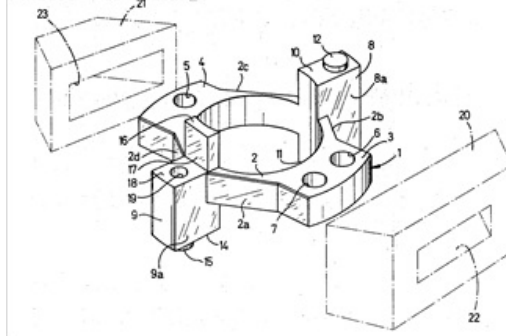
International (ipc 1-7): G04C3/00 G04F10/00 H02K1/06 H02K3/46 H02K37/00 H02K39/00

CPC: G04C3/16

European: G04C3/16

US: 310/194 310/216.074 310/257 310/49R 968/493

PatBase - US4186322_A

**Family:**

Publication number	Publication date	Application number	Application date
CH617062 A3	19800514	CH19760016192	19761222
CH617062 B	19801114	CH19760016192	19761222
DE2755753 A1	19780629	DE19772755753	19771214
DE2755753 B2	19790913	DE19772755753	19771214
DE2755753 C3	19800529	DE19772755753	19771214
FR2375640 A1	19780721	FR19770037727	19771214
FR2375640 B1	19810508	FR19770037727	19771214
IN149640 A	19820227	IN1977CA01719	19771212
JP53079211 A2	19780713	JP19770149829	19771213
US4186322 A	19800129	US19770859599	19771212

Priority:

CH19760016192 19761222

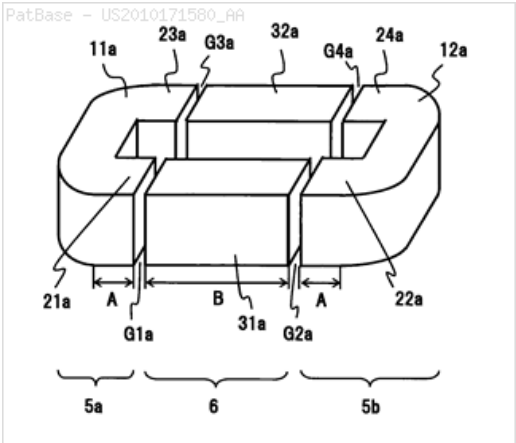
Probable Assignee: GIRARD PERREGAUX SA
Assignee(s): (std): GIRARD PERREGAUX SA
Assignee(s): GIRARD PERRIGEAX SA ; GIRARD PERREGAUX S A ; GIRARD PERREGAUX S A LA CHAUX DE FONDS NEUENBURG ; GIRARD PERREGAUX S A LA CHAUX DE FONDS NEUENBURG SCHWEIZ
Inventor(s): (std): FURANSHISU BUSON ; BESSON FRANCIS ; BERSON F
Inventor(s): FRANCIS BESSON ; BESSON FRANCIS SAVAGNIER NEUENBURG SCHWEIZ

112) Family number: 42044726 (US2010171580A) © PatBase

Title: REACTOR CORE AND REACTOR

Abstract: Provided is an annular reactor core formed of a U-shaped core and core legs. Core joints including end portions and two protrusions form the U-shaped core. Between the protrusions of these core joints, a plurality of (two) core legs 6 formed of core blocks are arranged so as to have gaps and the protrusions. The ratio A/B, which is a ratio of the length A of the protrusions of the core joint to the average length B of the core blocks constituting the core legs in a magnetic path direction, is optimized so as to be not less than 0.3 but not more than 8.0, whereby an increase in copper loss due to leak magnetic fluxes of the gap portions is suppressed.

Classifications:
International (IPC 8-9): H01F17/04 H01F17/06 H01F27/24
H01F37/00 (Advanced/Invention);
H01F17/06 H01F27/24 H01F37/00 (Core/Invention)
CPC: H01F3/08 H01F3/14 H01F27/34 H01F37/00
European: H01F3/14 H01F37/00 T01F27/34 T01F3/08
US: 336/178 336/178P 336/212 336/221 336/221S 336/233 336/233S



Family:

Publication number	Publication date	Application number	Application date
JP2008172116 A2	20080724	JP20070005412	20070115
JP2008186972 A2	20080814	JP20070018743	20070130
JP2008186973 A2	20080814	JP20070018744	20070130
JP5288227 B2	20130911	JP20070005412	20070115
JP5288228 B2	20130911	JP20070018743	20070130
JP5288229 B2	20130911	JP20070018744	20070130
US2010171580 AA	20100708	US20080440232	20080110
US7965163 BB	20110621	US20080440232	20080110
WO08087885 A1	20080724	WO2008JP50182	20080110

Priority:

JP20070005412 20070115 JP20070018743 20070130 JP20070018744 20070130
WO2008JP50182 20080110

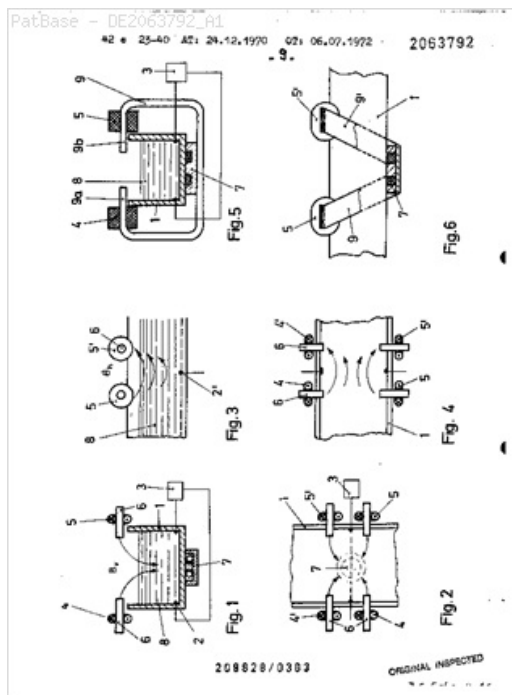
Probable Assignee: HITACHI METALS LTD
Assignee(s): (std): ABE TORU ; HAMAKAKE HIROKI ; HITACHI METALS LTD ; KIKUCHI KEIKO
Inventor(s): (std): HAMAKAKE HIROTAKA ; ABE TORU ; KIKUCHI KEIKO ; HAMAKAKE HIROKI
Agent(s): FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP; OHNO SEIJI ET AL
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

113) Family number: 540732 (DE2063792B2) © PatBase

Title: MAGNETIC FLOW MEASUREMENT DEVICE FOR OPEN CHANNELS - HAS 2 INDUCTION COILS ABOVE MAX. FLUID LEVEL TO DETECT VOLTAGES INTRODUCED BY SUBMERGED ELECTRODES

Abstract: The measurement device is for flow in open channels, gutters or partly filled pipes using alternate vertical or horizontal electromagnetic fields produced with two coils and detected with two electrodes. Speed measurements are independent of fluid level. At least one coil is pole reversible. The electrodes (2) introduce voltages near the bottom of the channel to detect fluid level and speed from which flow rate is determined. The two coils (4, 5) are placed above the max. fluid level, on opposite sides of the channel (1), and outside the channel side walls.

Classifications:
International (IPC 8-9): G01F1/00 G01F1/58 (Advanced/Invention);
G01F1/00 G01F1/56 (Core/Invention)
International (IPC 1-7): G01F1/58 G01F13/00
CPC: G01F1/002 G01F1/58
European: G01F1/00A G01F1/58



Family:

Publication number	Publication date	Application number	Application date
DE2063792 A1	19720706	DE19702063792	19701224
DE2063792 B2	19771020	DE19702063792	19701224
DE2063792 C3	19780608	DE19702063792	19701224

Priority:

DE19702063792 19701224

Probable Assignee: ECKARDT AG J

Assignee(s): (std): ECKARDT AG ; ECKARDT AG J ; ECKARDT J AG

Assignee(s): ECKARDT AG 7000 STUTTGART

Inventor(s): (std): ROLFF JAKOB JOHANNES PAULUS

Inventor(s): ROLFF JAKOB JOHANNES PAULUS 7052 SCHWAIKHEIM

114) Family number: 25488738 (AT256214B)

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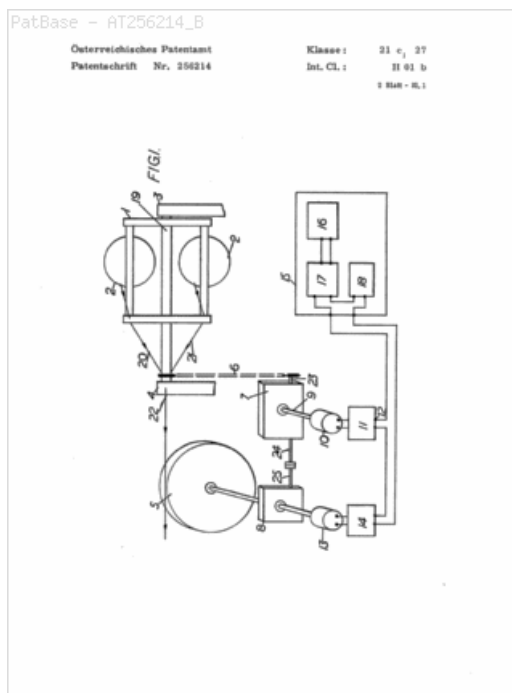
Title: VERFAHREN ZUR HERSTELLUNG VON LEITER- ODER ADERGRUPPEN FÜR FERNMELDEKABEL PROCESS FOR THE MANUFACTURE OF WIRE OR CORE GROUP FOR TELECOMMUNICATION CABLES (Machine translation)

Abstract: Source: AT256214B [DE] [Source: Claim 1] 1.

Classifications:

International (IPC 8-9): H01B (Subclass/Invention)

International (IPC 1-7): H01B13/02



Family:

Publication number	Publication date	Application number	Application date
AT256214 B	19670810	AT19630002798	19630405

Priority:

AT19630002798 19630405

Probable Assignee:

INT STANDARD ELECTRIC CORP

Assignee(s): (std):

INT STANDARD ELECTRIC CORP

115) Family number: 34536742 (US2007127146A)

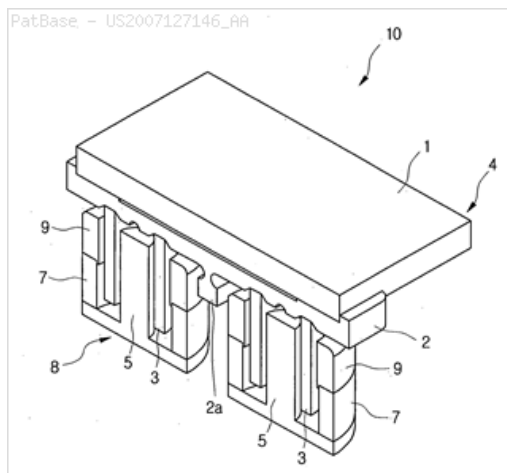
© PatBase

Title: VIBRATION TYPE TILTING DEVICE

Abstract: A vibration type tilting device, according to an embodiment of the invention, which comprises a mirror holder, supporting a mirror on one side, which tilts together with the mirror such that the mirror periodically tilts light on a light path in a minute angle; a holder support part supporting the mirror holder; a driving part, which supplies driving power to the mirror holder; and a damping part positioned between the mirror holder and the holder support part to reduce overshoot of the mirror holder, can improve the vibration performance of the tilting device to provide a smoother and clearer picture quality.

Classifications:

International (IPC 8-9): G02B26/08 G02B7/18 G02B7/182
H04N5/74 (Advanced/Invention);
H04N5/74 (Advanced/Non-invention);
G02B26/08 G02B7/18 G02B7/182 H04N5/74 (Core/Invention)
CPC: G02B26/0833 G02B26/085
European: G02B26/08M4 G02B26/08M4M
US: 359/198 359/223 359/223.1 359/871



Family:

Publication number	Publication date	Application number	Application date
KR100709558 B1	20070420	KR20050081338	20050901
KR20070025317 A	20070308	KR20050081338	20050901
US2007127146 AA	20070607	US20060514306	20060901
US7457022 BB	20081125	US20060514306	20060901

Priority:

KR20050081338 20050901

Probable Assignee: SAMSUNG ELECTRO MECHANICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRO MECH

Assignee(s): SAMSUNG ELECTRO MECHANICS CO ; SAMSUNG ELECTRO MECHANICS CO LTD

Inventor(s): (std): PARK KYOUNG SHIN ; MOON YANG HO ; LEE CHIL SUNG ; KIM JAE KYUNG

Agent(s): STAAS AND HALSEY LLP

116) Family number: 11859759 (US6245190B)

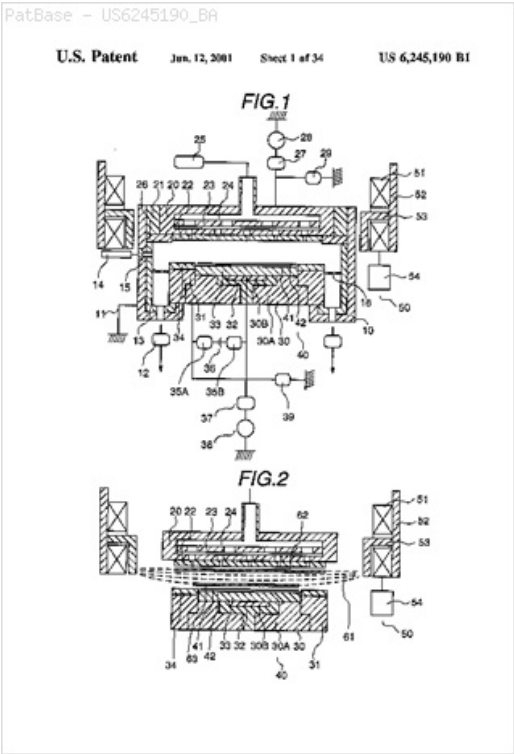
© PatBase

Title: Plasma processing system and plasma processing method

Abstract: A plasma processing apparatus and a method therefor which can achieve a preferred process rate, a fine pattern process capability, a selectivity and uniformity of processing at the same time compatibly for a large size wafer, which effects are achieved by controlling the plasma state and the dissociation state of etching gas through control of the electron resonance through application of a magnetic field thereto. A high frequency power at 20-300 MHz is applied across a pair of electrodes in a vacuum process chamber, and a magnetic field is formed parallel to the plane of the electrodes in the space between the electrodes. By controlling the intensity of the magnetic field in a range of 100 gauss or smaller, formation of electron cyclotron resonance and electron sheath resonance occurring from interaction between the electrical field and the magnetic field in the electrode sheath portion is controlled. Thereby, the plasma state, i.e., the electron density, electron energy distribution and dissociation state of the process gas in the plasma, can be controlled. The magnetic field is generated by a plurality of coils, an outer shield, and pendant yoke to form magnetic field parallel to the plane of the electrodes in the space between the upper and the bottom electrodes.

Classifications:

International (IPC 8-9): C23F4/00 H01J37/32 H01L21/30 H01L21/302
H01L21/3065 H05H1/46 (Advanced/Invention);
H05H1/10 (Advanced/Non-invention);
C23F4/00 H01J37/32 H01L21/02 H05H1/46 (Core/Invention);
H01L21/302 (Core/Non-invention)
International (IPC 1-7): C23F4/00 H01J37/32 H01L21/302
H01L21/3065 H05H1/10 H05H1/46 H05H1/50
CPC: H01J37/32082 H01J37/32091 H01J37/32165 H01J37/32623
H01J37/3266 H01J37/32678
European: H01J37/32D1C H01J37/32H1B H01J37/32M8
H01J37/32M8B H01J37/32M8H4B H01J37/32O10 H01J37/32O10D
H01J37/32O8 T01J237/323D T01J237/323D4 T01J237/325B



Family:

Table with 4 columns: Publication number, Publication date, Application number, Application date. It lists various international and national patent publications related to the invention.

Priority:

JP19970073063 19970326

Probable Assignee: HITACHI LTD

Assignee(s): (std): HITACHI LTD

Assignee(s): HITACHI LTD JP

Inventor(s): (std): FUKUMOTO HIDESHI ; MASUDA TOSHIO ; MITANI KATSUHIKO ; OTSUBO TORU ; SASAKI ICHIRO ; TANAKA JUN ICHI ; TANAKA JYUNICHI ; WATANABE KATSUYA ; FUKUMOTO EIJI ; TANAKA JUNICHI ; ICHIRO SASAKI ; SHIRAYONE SHIGERU ; KOIZUMI MAKOTO ; KAJI TETSUNORI

Inventor(s): TOSHIO MASUDA ; TETSUNORI KAJI ; KATSUHIKO MITANI

Designated states: DE GB IT NL

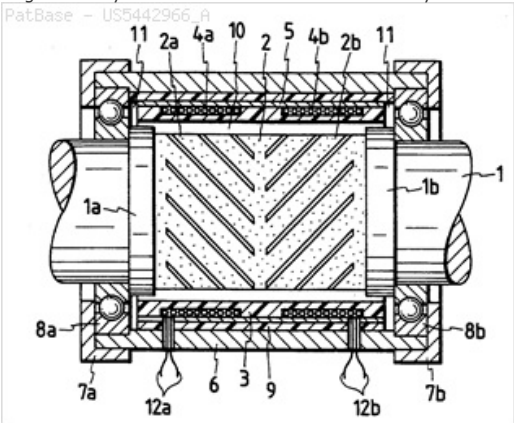
117) Family number: 4209760 (US5442966A) © PatBase

Title: TORQUE SENSOR

Abstract: A torque sensor of the type utilizing magnetostriction of either a shaft made of a magnetostrictive magnetic alloy, or a magnetostrictive magnetic alloy layer formed on an outer peripheral surface of a shaft is disclosed, in which coils are disposed around the shaft for detecting a magnetic property of the magnetostrictive magnetic alloy, a tubular magnetic yoke made of a magnetic alloy having a soft magnetic property and disposed around the coils for excluding the influence of a disturbance magnetic field and completing a closed magnetic circuit, and a hollow cylindrical container disposed around the magnetic yoke. The torque sensor thus constructed has a high measuring accuracy and an excellent thermal stability.

Classifications:

International (IPC 8-9): G01L3/10 (Advanced/Invention)
International (IPC 1-7): G01L1/00 G01L3/10
CPC: G01L3/102 G01L3/105
European: G01L3/10A2
US: 73/862.333 73/862.335



Family:

Publication number	Publication date	Application number	Application date
DE69212514 D1	19960905	DE19926012514	19920304
DE69212514 T2	19961128	DE19926012514T	19920304
EP0502722 A2	19920909	EP19920301872	19920304
EP0502722 A3	19931201	EP19920301872	19920304
EP0502722 B1	19960731	EP19920301872	19920304
JP2811980 B2	19981015	JP19910037206	19910304
JP4276533 A2	19921001	JP19910037206	19910304
US5442966 A	19950822	US19940231944	19940421

Priority:

JP19910037206 19910304 US19920845982 19920304 US19940231944 19940421

Probable Assignee: MATSUSHITA ELECTRIC IND CO LTD

Assignee(s): (std): MATSUSHITA ELECTRIC IND CO LTD

Assignee(s): MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD KADOMA OSAKA JP

Inventor(s): (std): HASE HIROYUKI ; SHOJI MASATO ; SHOJI RIHITO ; WAKAMIYA MASAYUKI

Inventor(s): WAKAMIYA MASAYUKI SUITA SHI OSAKA JP ; SHOJI RIHITO YAWATA SHI KYOTO JP ; HASE HIROYUKI FUSHIMI KU KYOTO SHI KYOTO JP

Designated states: DE FR GB IT

118) Family number: 6558762 (SU949419A)

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Title: DEVICE FOR DETERMINATION OF SUBSTANCE PHYSICAL PROPERTIES

Abstract: Source: SU949419A **Machine translation:** 1) and separated from the liner C of nonmagnetic material (ebonite) yokes 5 and 6 with a constant field (the gap in the opposite direction) almost completely shield the coil from the interference of the measuring circuit from the electromagnetic field of the exciting coil of the transducer, the mutual induction phenomenon eliminates AC coils with a total MA1-magnetic core and increasing the efficiency and reliability of transformers. Body 1 provided with lids 2 and 3 of the soft magnetic material (Armco iron), protects the device against external electromagnetic fields, which also increases the reliability and stability of the measurements. Effect of damping oscillatory system during operation, due to the occurrence of vortex then Cove in stock 7 x 8 mounting detail and frames 13 and 1 / coils and guide its value changed when the oscillation frequency of the system, eliminating the poliosytu manufacturer of those parts of tokoneprovod ing and nonmagnetic material that allows the device to increase the sensitivity and accuracy. Thus, the design allows the device properties to increase the reliability, accuracy and ntstabilnost because it contains oppositely directed magnetic cores, separated by a medium with low magnetic permeability, rod, fasteners and frames of non-magnetic coils and then koneprovod conductive material and korpusekran with lids magnetizable material. The device operates as follows: At the transmitter 11 of the exciting coil an alternating voltage is supplied from the sound generator 15 at a constant amplitude. Frequency voltage is set equal to the natural frequency of the mechanical oscillation system (response) and well measured quantity on the measuring signal is an electric coil 16, tube voltmeter 6 for the case when the working kozimetr bismuth, representing a conventional thin plate pairs or without respect to the test liquid. Then dip the working body of the viscometer in the investigated emuyu Wednesday at a certain depth, or 9 pereescha vessel with liquid either the viscometer. Sample fluid, providing the hydrodynamic resistance to movement of the working body, dependent on the parameters of liquid present, in particular its viscosity, changes the amplitude and frequency of the mechanical system of the viscometer. Proportional change in the amplitude are altered and voltmeter readings 16. Consequently, the voltmeter readings in this case are determined by the viscosity of the medium under investigation, and if the pre-calibrated viscometer for fluids with;;. Well studied viscosity and density, the viscosity of the medium under investigation is determined by indications the voltmeter. For measuring the viscosity of the medium-frequency phase method or damped vibration of the scheme is supplemented with necessary measuring devices (frequency, phase meter or meter damping decrement). Thus, by measuring parameters of the test substance interacts with the vibrational system with a corresponding device can be determined by calibration and the other associated with a viscosity of physical properties of the material density, phase composition, and the chemical composition and temperature. Tests have shown the device, which is completely damped at koleba.telnoy system and distance between the magnetic cores of 5 mm on the measuring pickup coil by exciting the transducer absent.. The Q oscillatory system, characterized the sensitivity of the device has increased as compared with the known 10 times. CLAIMS 1. Apparatus for determining physical properties of substances, such as viscosity, and the measuring system comprising a housing in which the electromagnetic transducers arranged two movable coils, fixed on the rod and a displacement body forming an oscillating system, associated with the body via elastic elements, characterized chayuschees that in order to improve the accuracy and reliability of measurements, katushkl ras7 put in the annular gaps anti oppositely directed fixed magician s toprovodov with a constant magnetic field, which are separated by a partition of a magnetic material, and the body is made of a soft magnetic material and is provided with lids the same material. 2. Apparatus according to claim 1, and L t of mayuschees that frames Single carcasses rod and fasteners made of a nonmagnetic and conductive material tokoneprovod. 9.8 Sources of information received into account in the examination 1.Solovev AN, AB Kaplun, vibratory method of measuring the viscosity of liquids. Novosibirsk. Science 1970. 33. 2.Avtorskoe Certificate USSR 1 609 078, cl. G 01 N 11/16, 1978. 3.Solovev AN, AB Kaplun Vibratory method of measuring the viscosity of liquids. Novosibirsk Science 1970. 83 (prototype).

Classifications:

International (IPC 8-9): G01N11/16 (Advanced/Invention); G01N11/10 (Core/Invention)

International (IPC 1-7): G01N11/16

Publication number	Publication date	Application number	Application date
SU949419 A1	19820807	SU19813239866	19810123

SU19813239866 19810123

Assignee(s): (std): ZHDANOV METALLURGICAL INST ; ZHDANOVSKIJ METALL INST

Inventor(s): (std): BARSUKOV VALENTIN E ; GLADK

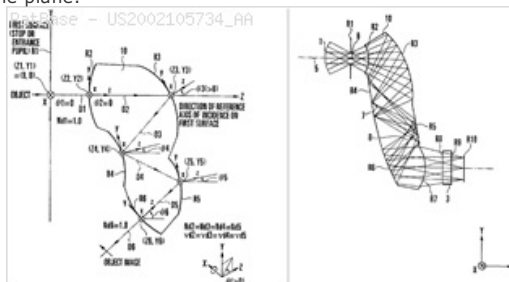
Abstract: An optical system or reflecting type according to the invention comprises an optical element composed of a transparent body having an entrance surface, an exit surface and at least three curved reflecting surfaces of internal reflection, wherein a light beam coming from an object and entering at the entrance surface is reflected from at least one of the reflecting surfaces to form a primary image within the optical element and is, then, made to exit from the exit surface through the remaining reflecting surfaces to form an object image on a predetermined plane, and wherein 70 percent or more of the length of a reference axis in the optical element lies in one plane.

International (IPC 8-9): G02B13/18 G02B15/00 G02B15/16
G02B17/00 G02B17/06 G02B17/08 G02B7/00 G02B7/02 G02B7/08
G02B7/09 G02B7/10 G03B13/32 G03B17/00 G03B3/02 H04N5/225
H04N5/232 (Advanced/Invention);
H04N5/225 (Advanced/Non-invention);
G02B13/18 G02B15/16 G02B17/00 G02B17/08 G02B7/00 G02B7/02
G02B7/08 G02B7/09 G03B13/32 G03B17/00 G03B3/00 H04N5/225
H04N5/232 (Core/Invention);
H04N5/225 (Core/Non-invention)

CPC: G02B17/0848 G02B17/0896 G02B15/00 G02B17/0663
G02B17/0694 G02B17/086 H04N5/2251 H04N5/2253 H04N5/2254
G02B7/00 G02B7/102

European: G02B15/00 G02B17/06C3 G02B17/06Z G02B17/08 G02B17/08C3 G02B17/08M1 G02B17/08Z G02B7/00 G02B7/10A H04N5/225C H04N5/225C3 H04N5/225C4 S02B203/20

US: 250/201.2 250/201.7 348/335 348/340 348/E05.025 348/E05.027 348/E05.028 348/E5.025 348/E5.027 348/E5.028 348/E50.25 348/E50.25S 348/E50.27 348/E50.27S 348/E50.28 348/E50.28S 356/400 359/365 359/366 359/422 359/431 359/432 359/433 359/627 359/627P 359/629 359/629S 359/630 359/631 359/634 359/636 359/636S 359/676 359/678 359/683 359/696 359/720 359/726 359/726S 359/727 359/727S 359/728 359/729 359/729P 359/731 359/738 359/822 359/823 359/824 359/831 359/861 396/87



Publication number	Publication date	Application number	Application date
DE69618689 D1	20020314	DE19966018689	19960227
DE69618689 T2	20020814	DE19966018689T	19960227
DE69623362 D1	20021010	DE19966023362	19960227
DE69623362 T2	20030807	DE19966023362T	19960227
DE69624021 D1	20021107	DE19966024021	19960227
DE69624021 T2	20030306	DE19966024021T	19960227
EP0730169 A2	19960904	EP19960102915	19960227

EP0730169 A3	19980422	EP19960102915	19960227
EP0730169 B1	20020123	EP19960102915	19960227
EP0730179 A2	19960904	EP19960102911	19960227
EP0730179 A3	19980422	EP19960102911	19960227
EP0730179 B1	20021002	EP19960102911	19960227
EP0730180 A2	19960904	EP19960102914	19960227
EP0730180 A3	19980422	EP19960102914	19960227
EP0730180 B1	20020904	EP19960102914	19960227
HK1012437 A1	20021025	HK19980113439	19981215
JP11337825 A2	19991210	JP19990129645	19990511
JP11337826 A2	19991210	JP19990129646	19990511
JP3291974 B2	20020617	JP19950123236	19950424
JP3291975 B2	20020617	JP19950123237	19950424
JP3292173 B2	20020617	JP19990129645	19990511
JP3320252 B2	20020903	JP19950123238	19950424
JP3332890 B2	20021007	JP19990129646	19990511
JP3658033 B2	20050608	JP19950065109	19950228
JP8234082 A2	19960913	JP19950065110	19950228
JP8237529 A2	19960913	JP19950065103	19950228
JP8237531 A2	19960913	JP19950065109	19950228
JP8292368 A2	19961105	JP19950123237	19950424
JP8292371 A2	19961105	JP19950123238	19950424
JP8292372 A2	19961105	JP19950123236	19950424
US2002105734 AA	20020808	US20020043305	20020114
US2002149854 AA	20021017	US20010968515	20011002
US5825560 A	19981020	US19960606845	19960226
US5847887 A	19981208	US19970957118	19971024
US6021004 A	20000201	US19960607175	19960226
US6166866 A	20001226	US19960606824	19960226
US6292309 BA	20010918	US19990459861	19991214
US6366411 BA	20020402	US20000612290	20000707
US6636360 BA	20031021	US20000704751	20001103
US6639729 BB	20031028	US20010968515	20011002
US6785060 BB	20040831	US20020043305	20020114

Priority:

JP19950065103	19950228	JP19950065109	19950228	JP19950065110	19950228
JP19950123236	19950424	JP19950123238	19950424	JP19950123237	19950424
US19960606845	19960226	US19960607175	19960226	US19960606825	19960226
US19960606824	19960226	US19970957118	19971024	JP19990129645	19990511
JP19990129646	19990511	US19990459861	19991214	US20000612290	20000707
US20000704751	20001103	US20010968515	20011002	US20020043305	20020114

Probable Assignee: CANON INC

Assignee(s): (std): AKIYAMA TAKESHI ; ARAKI KEISUKE ; KIMURA KENICHI ; KURIHASHI TOSHIYA ; OGURA SHIGEO ; NANBA NORIHIRO ; SEKITA MAKOTO ; SARUWATARI HIROSHI ; TANAKA TSUNEFUMI ; TAKEDA NOBUHIRO ; UCHINO YOSHIHIRO ; YANAI TOSHIKAZU ; CANON KK

Assignee(s): CANON KABUSHIKI KAISHA ; CANON KABUSHIKI XAISHA ; VENTURE LENDING AND LEASING VII INC ; VENTURE LENDING AND LEASING VIII INC ; OHTSUKA PATENT OFFICE ; CANON INC ; CANON K K

Inventor(s): (std): AKIYAMA KENJI ; AKIYAMA TAKESHI ; ARAKI KEISUKE ; KIMURA KENICHI ; KURIHASHI TOSHIYA ; NANBA NORIHIRO ; OGURA SHIGEO ; SARUWATARI HIROSHI ; SEKITA MAKOTO ; TAKEDA NOBUHIRO ; TANAKA TSUNEFUMI ; UCHINO YOSHIHIRO ; YANAI TOSHIKAZU

Designated states: DE FR GB

120) Family number: 33648788 (KR20060038088A)

© PatBase

Title: COMBINATION RADIAL-AXIAL MAGNETIC BEARING

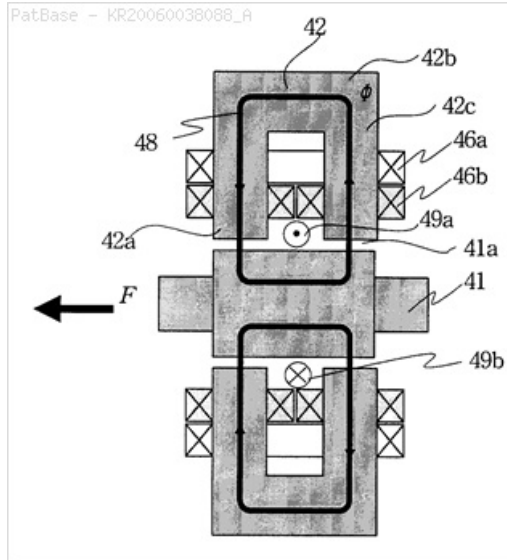
Abstract: Source: KR100608202B **Machine translation:** This invention, each hoejeoncuggwa leave voids between the RADIUS and the extended in the direction of the No. 1 bridge No. 1 leg separation on where it is no. 1 with axial from the legs and connect these with the extended side-by-side 2nd leg consists of the axial yokeuro, each centered around a rotation axis symmetry is placed where it is made up of a pair of core hoejeoncuggwa core (1) pair, respectively leave voids between the RADIUS and the extended in the direction of the No. 1 bridge No. 1 leg separation on where it is no. 1 with axial from the legs and connect these with the extended side-by-side 2nd leg consists of the axial yokeuro, Each centered around a rotation axis symmetry is placed where it is made up of a pair of core second core pairs, pairs and (2) paragraph (1) above the core-core pair of cores are placed in the direction of the circumference-Conformal-direction from the circumference, two adjacent core flux can be formed between the cores are connected in the direction of the circumference the circumference direction 2nd leg 1st leg at York, and the No. 1 coils, winding across the 1st bridge and 2nd leg on each winding coil, and hoejeoncugi the second radial and axial displacement in order to return to a central axis of rotation when the No. 1 and no. 2, the size and direction of electrical current that flows in the coils to control a control Including radial-axial complex electromagnetic bearing commences. **Keywords** self, bearing, active, Lorenz, attenuation, a compact, cross section, end-to-end if

Classifications:

International (IPC 8-9): F16C32/04 (Advanced/Invention);

F16C32/04 (Core/Invention)

CPC: F16C32/0459 F16C32/0474

**Family:**

Publication number	Publication date	Application number	Application date
KR100608202 B1	20060809	KR20040087244	20041029
KR20060038088 A	20060503	KR20040087244	20041029

Priority:

KR20040087244 20041029

Probable Assignee: KOREA INST SCI AND TECH**Assignee(s):** (std): KOREA INST SCI AND TECH**Assignee(s):** KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY ; KOREA INST OF SCIENCE AND TECHNOLOGY**Inventor(s):** (std): KIM SEUNG JONG ; KIM HA YONG**121) Family number: 8406790** (US5713204A)

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Title: Turbo compounder

Abstract: PCT No. PCT/CA93/00176 Sec. 371 Date Jan. 9, 1995 Sec. 102(e) Date Jan. 9, 1995 PCT Filed Apr. 26, 1993 PCT Pub. No. WO93/22546 PCT Pub. Date Nov. 11, 1993A turbo compounder includes an exhaust driven turbine (19) to supply compressed gas to the engine intake (17a). A transmission (23) that includes a variable ratio transmission element transfers energy between the turbine (19) and an engine derived energy reserve (27). A controller (16) adjusts the ratio of the transmission to manage the energy transfer by monitoring a predetermined operating parameter of the engine (10).

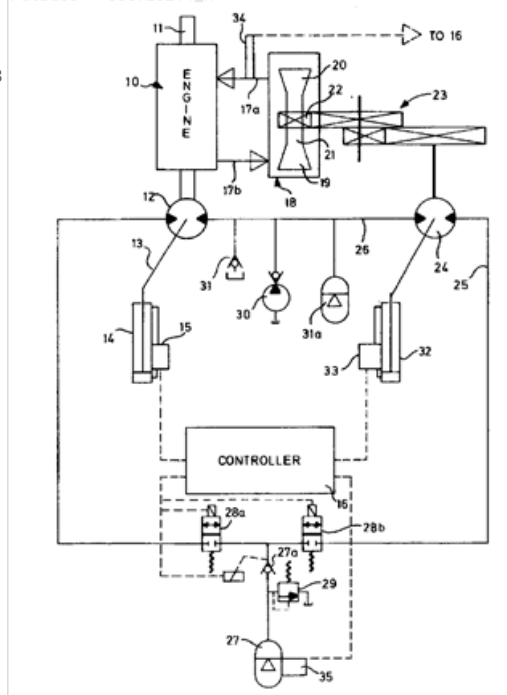
Classifications:**International (ipc 8-9):** F02B37/10 F02B37/14

F02B39/08 (Advanced/Invention);

F02B37/04 F02B37/12 F02B39/02 (Core/Invention)

International (ipc 1-7): F02B37/10 F02B37/12 F02B37/14 F02B39/08**CPC:** Y02T10/144 Y02T10/163 F02B39/08 F02B37/10 F02B37/14**European:** F02B37/10 F02B37/14 F02B39/08**US:** 60/605.1 60/608 606/80

PatBase - US5713204_A

**Family:**

Publication number	Publication date	Application number	Application date
AU199342571 A1	19931129	AU19930042571	19930426
GB9208998 A0	19920610	GB19920008998	19920425
GB9213219 A0	19920805	GB19920013219	19920622

US5713204 A	19980203	US19950325332	19950109
WO9322546 A1	19931111	WO1993CA00176	19930426

Priority:

GB19920008998 19920425 GB19920013219 19920622 WO1993CA00176 19930426

Probable Assignee: 814405 ONTARIO LTD

Assignee(s): (std): 577224 ONTARIO LIMITED ; 577224 ONTARIO LTD ; ONTARIO LTD 814405 ; KADLICKO GEORGE

Assignee(s): 814405 ONTARIO LIMITED ; 814405 ONTARIO LTD

Inventor(s): (std): KADLICKO GEORGE

Inventor(s): GEORGE KADLICKO

Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR HU IE IT JP KR LU MC NL NO PT SE US

122) Family number: 15080792 (US5062095A)

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Title: Actuator and method of manufacturing thereof

Abstract: An actuator rotatable about a support shaft rectilinearly movable along axis of a shaft and rotatably movable about the shaft includes a cylindrical magnet extending about the shaft. The cylindrical magnet has a plurality of poles in the radial direction and magnetized boundaries between poles of opposite polarity extending in a circumferential direction of the magnet and extending in an axial direction of the magnet. A plurality of yokes are provided to define magnetic poles coupled in facing relationship with the magnetic boundaries of a cylindrical magnet and having coils coupled thereto to define the magnetic poles.

Classifications:

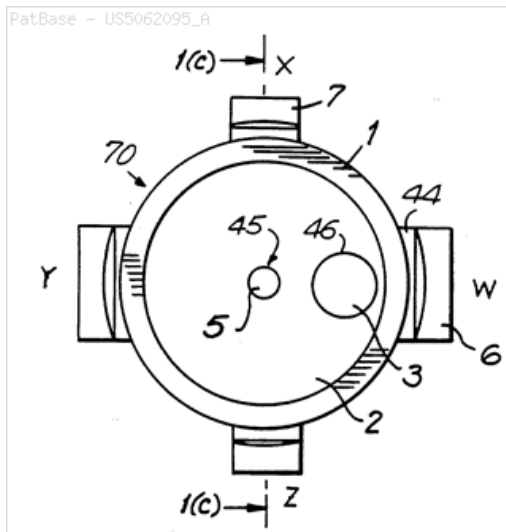
International (IPC 8-9): G11B7/09 H01F1/057 H01F41/02 H02K1/27 H02K15/03 H02K41/02 (Advanced/Invention); G11B7/09 (Core/Invention)

International (IPC 1-7): G02B7/04 G11B11/04 G11B7/09 H01F41/02 H02K1/06 H02K15/03 H02K41/02

CPC: G11B7/0925 G11B7/0935 H01F1/0576 H01F41/028 H02K1/27 H02K1/2733 H02K15/03 H02K41/02 H02K2201/12 H02K2201/18

European: G11B7/09D G11B7/09D6 H01F1/057B8B H01F41/02B6B H02K1/27 H02K1/27B2B2 H02K15/03 H02K41/02 T02K201/12 T02K201/18

US: 359/822 359/823 369/44.14 369/44.21 369/44.22 G9B/007.079 G9B/007.085 G9B/7.079 G9B/7.085



Family:

Publication number	Publication date	Application number	Application date
FR2640828 A1	19900622	FR19890000589	19890119
JP1158629 A2	19890621	JP19880182418	19880721
JP1294234 A2	19891128	JP19880211637	19880826
JP2699426 B2	19980119	JP19880182418	19880721
JP2699438 B2	19980119	JP19880211637	19880826
NL8900188 A	19900216	NL19890000188	19890126
US5062095 A	19911029	US19890303602	19890127

Priority:

JP19870186956 19870727 JP19870213926 19870827 JP19870232777 19870917
JP19880182418 19880721 JP19880211637 19880826

Probable Assignee: SEIKO EPSON CORP

Assignee(s): (std): SEIKO EPSON CORP ; SEIKO EPSON TE TOKIO JAPAN CORP

Assignee(s): SEIKO EPSON 4 1 NISHISHINJUKU 2 CHOME SHINJUKU KU

Inventor(s): (std): AKIOKA KOJI ; HORIKAWA MITSUHIRO ; IDE TSUGIO ; ITO HIROSHI ; SHIMODA TATSUYA ; YANAGISAWA MICHIO

Inventor(s): MITSUHIRO HORIKAWA HIROSHI ITO TSUGIO IDE MICHIO Y ; MITSUHIRO HORIKAWA HIROSHI ITO TSUGIO IDE...

123) Family number: 10477792 (RU2037224C)

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Title: ELECTRIC REACTOR WITH SUPERPOSED MAGNETIZATION

Abstract:

FIELD: electrical engineering; electrical power engineering. SUBSTANCE: electric reactor has coils of main winding 1, coils of control winding 2 and magnetic system with rods and yokes 3. Rods of magnetic system are manufactured in the form of individual armored cores 4 with central bars and side yokes placed orthogonally to axes of coils of main winding. Central rods of armored cores carry coils of control winding, cores proper are isolated from with the aid of nonmagnetic gaps. Electric reactor is provided with additional cores 5 having correction winding 6 and magnetic shunts 7 put on them. Yokes 3 of magnetic system on side of external front part of control winding are fitted with protrusions 8 of electrical-sheet steel located on both sides of system. Cores 5 with windings 6 are placed between protrusions 8 of yoke 3 and magnetic shunts 7 positioned over entire height of electric reactor. Windings 6 are connected in series with coils of control winding. Shunts 7 are

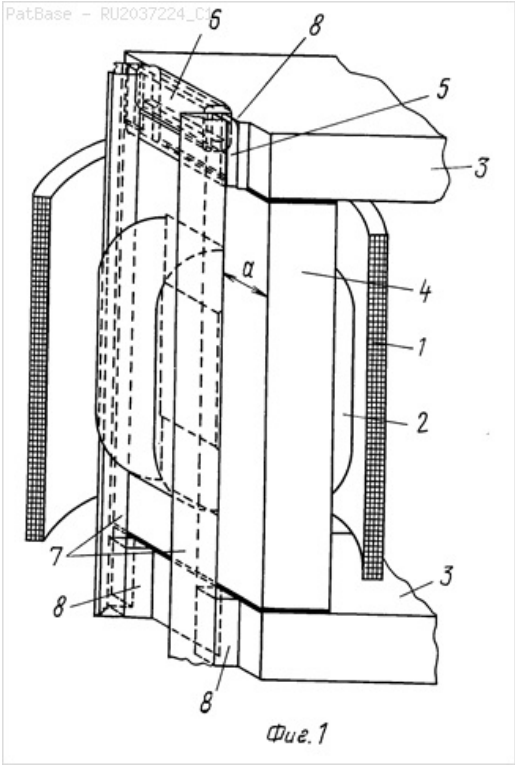
separated from cores 5 by nonmagnetic gaps. EFFECT: diminished harmonics in working current of reactor over the whole range of adjustment, reduced additional losses. 2 cl, 4 dwg

Classifications:

International (IPC 8-9): H01F29/14 (Advanced/Invention);

H01F29/00 (Core/Invention)

International (IPC 1-7): H01F29/14



Family:

Publication number	Publication date	Application number	Application date
RU2037224 C1	19950609	RU19920015109	19921225
RU92015109 A	19950420	RU19920015109	19921225

Priority:

RU19920015109 19921225

Probable Assignee: TS K B MODERNIZATSII I REMONTU

Assignee(s): (std): TS K B MODERNIZATSII I REMONTU

Assignee(s): TSENTRALNOE KONSTRUKTORSKOE BYURO PO MODERNIZATSII ; TSENTRALNOE KONSTRUKTORSKOE BYURO PO MODERNIZATSII I REMONTU ENERGETICHESKOGO OBOURODOVANIYA ELEKTROSTANTSII MINISTERSTVA TOPLIVA I ENERGETIKI RF

Inventor(s): (std): FEDOSOV LEONID L ; DOROZHKO LEONID I

124) Family number: 15216793 (US5099162A)

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Title: COIL OF SUPERCONDUCTING MATERIAL FOR ELECTRIC APPLIANCE AND MOTOR UTILIZING SAID COIL

Abstract: Coils for electric appliances such as motor or generator are made with a superconducting material, and the width of the coil and the gap between the coils are so adjusted that the passage of magnetic flux generated by a magnetic flux generating member in the electric appliance is not influenced by the magnetic repulsion of the superconducting material.

Classifications:

International (IPC 8-9): H01F6/06 H02K3/02 H02K3/04 H02K3/26 H02K55/00 H02K55/02 (Advanced/Invention);

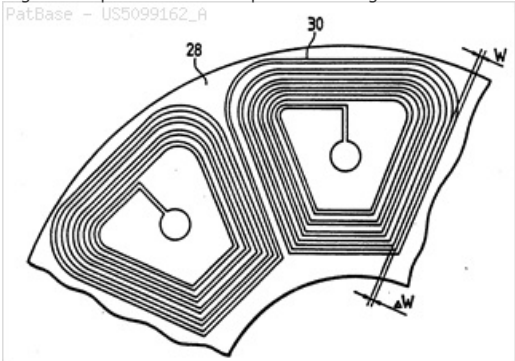
H02K3/00 H02K3/04 H02K55/00 (Core/Invention)

International (IPC 1-7): H01F7/22 H02K1/00 H02K3/02 H02K3/04 H02K3/26 H02K55/02

CPC: Y10S505/706 H01F6/06 H02K3/26 H02K55/00 Y02E40/622

European: H01F6/06 H02K3/26 H02K55/00 Y02E40/62

US: 310/154 310/154.05 310/156 310/184 310/198 310/208 310/254 310/268 310/52 335/216 505/1 505/166 505/211 505/706



Family:

Publication number	Publication date	Application number	Application date
JP1030433 A2	19890201	JP19870184399	19870722
JP1255451 A2	19891012	JP19880081397	19880404
JP2746596 B2	19980506	JP19880081397	19880404
JP64030433 A2	19890201	JP19870184399	19870722
US5099162 A	19920324	US19880220162	19880718
US5389908 A	19950214	US19930138389	19931020

Priority:

JP19870184399 19870722 JP19880081397 19880404 US19880220162 19880718
US19910812403 19911223 US19930138389 19931020

Probable Assignee: CANON INC

Assignee(s): (std): CANON KK

Assignee(s): KYANON KK ; CANON 30 2 3 CHOME SHIMOMARUKO OHTA KU TOKYO JAPAN ; CANON 30 2 3 CHOME SHIMOMARUKO OHTA KU TOKYO JAPAN A CORP OF JAPAN KK ; CANON INC ; CANON KABUSHIKI KAISHA

Inventor(s): (std): SAWADA TAKESHI

125) Family number: 55800793 (AT513229B)

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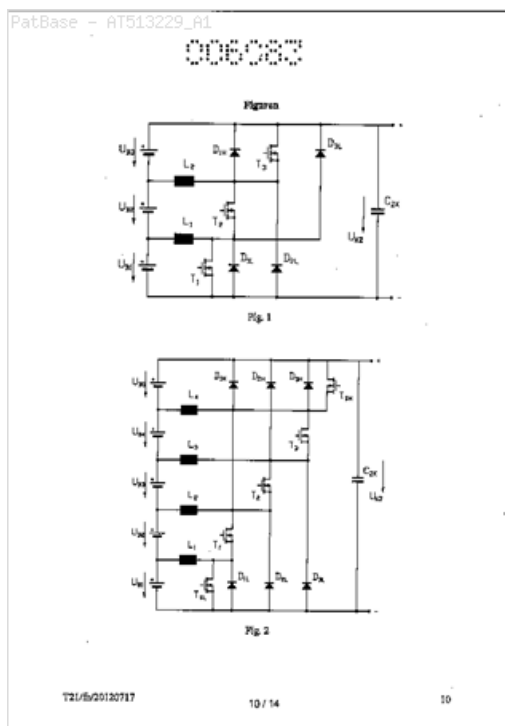
Title: VORRICHTUNG ZUR SYMMETRIERUNG VON IN SERIE GESCHALTETEN BATTERIEN UND KONDENSATOREN

Abstract: Source: AT513229B [DE] Die Symmetrierung von in Serie geschalteten Batterien und Kondensatoren ist sehr wichtig, damit es nicht zur Zerstörung von Zellen oder Elementen kommt. Fig.1 zeigt drei in Serie geschaltete Batterien (UB1, UB2, UB3). An die mittlere (UB2) sind an der positiven und der negativen Klemme je eine Spule (L1, L2) angeschlossen. Weiters besteht die Schaltung aus drei aktiven Schaltern (T1, T2, T3) und zwei passiven Schaltern (D1H, D2H), deren Kathoden mit dem Pluspol verbunden sind und zwei passiven Schaltern (D1L, D2L), deren Anoden mit dem Minuspol verbunden sind. Werden strombidirektionale aktive Schalter verwendet, so koennen die Dioden weggelassen werden. Weiters kann jede der Spulen (L1, L2) jeweils noch durch eine weitere Wicklung fuer Messzwecke versehen sein. Es koennen die Spulen (L1, L2) auch magnetisch miteinander gekoppelt sein. Weiters besteht die Moeglichkeit, dass die Spulen (L1, L2) in je zwei magnetisch miteinander gut gekoppelte Teilspulen (LiA, LiB) aufgeteilt werden.

Classifications:

International (IPC 8-9): G01R31/36 H01M10/44 H01M10/48 H02J7/00 (Advanced/Invention)

CPC: H02J7/0016 H01M10/441 H01M10/482 G01R31/396



Family:

Publication number	Publication date	Application number	Application date
AT513229 A1	20140215	AT20120000798	20120717
AT513229 B1	20180215	AT20120000798	20120717

Priority:

AT20120000798 20120717

Probable Assignee: FACHHOCHSCHULE TECHNIKUM WIEN

Assignee(s): (std): FACHHOCHSCHULE TECHNIKUM WIEN

Inventor(s): (std): EDELMOSER KARL DIPL ING DR ; FELIX DIPL ING DR HIMMELSTOSS ; HIMMELSTOSS FELIX DIPL ING DR ; KARL DIPL ING DR EDELMOSER

Inventor(s): KARL DIPLING DR EDELMOSER ; HIMMELSTOSS FELIX DIPLING DR ; FELIX DIPLING DR HIMMELSTOSS ; EDELMOSER KARL DIPLING DR

126) Family number: 18399797 (GB274575A)

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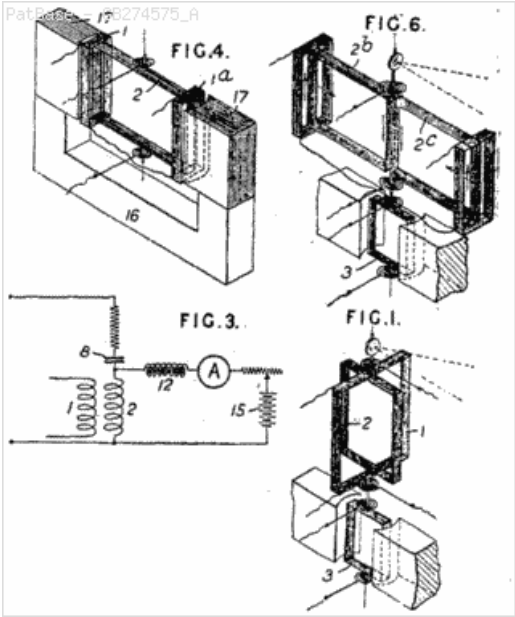
Title: Rickets, W.

Abstract: 274,575. Rickets, W. J. April 24, 1926. Electromagnetic current and pressure meters; power meters.-In an electric measuring instrument the torque produced by the reaction between the currents passing through the coils of a system is balanced and the removable coil brought back to zero position by a magnetic field due to a direct current, the measure of which gives the indication required. Fig. 1 shows an electro-dynamometer having a fixed coil 1 and a moving coil 2. Attached to the moving coil 2 and rotatable coaxially therewith is the movable element 3 of an ammeter or galvanometer of any type, shown as a coil moving in the field of a permanent magnet. Alternatively an iron member of permanent magnet may move in the field of a fixed coil system. In a modification, the moving coils 2, 3 are mounted on separate axes, preferably parallel, which carry light yokes connected by thin threads or otherwise. To operate the instrument as an ammeter, for example, the current to be measured is passed through the coils 1, 2 and a direct current is passed through the coil 3 and adjusted until

the resulting torque balances that due to the interaction of the coils 1, 2, so that the system is brought back to zero. The current passing through the coil 3 is a function of the current to be measured. The instrument may similarly be employed as a volt meter or wattmeter. Fig. 3 shows an alternating-current wattmeter in which a single moving coil 2 is employed both as an alternating current pressure coil and a control coil supplied with direct current from a battery 15. A choking-coil 12 prevents appreciable flow of alternating-current in the direct-current circuit and a condenser 8 prevents direct current from entering the alternating-current circuit. The moving coil 2 is situated in the magnetic field of a permanent magnet 16, Fig. 4, with laminated pole-pieces 17. Two fixed coils 1, 1 are provided as the equivalent of the coil 1, Fig. 3, and are arranged to yield a narrow but intense field cutting the vertical parts of the rectangular moving coil 2, which are situated at a relatively great distance from the axis to increase the torque. The magnetic path may contain iron. The moving coil 2 may be replaced by an astatic combination of two coils 2b, 2 as shown in Fig. 6.

Classifications:

International (IPC 1-7): G01R7/16



Family:

Publication number	Publication date	Application number	Application date
GB274575 A	00000000		00000000

127) Family number: 21547818 (FR1442344A)

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Title: PERFECTIONNEMENTS APPORTES AUX MACHINES TOURNANTES ELECTRIQUES, NOTAMMENT AUX ALTERNATEURS SANS BALAIS IMPROVEMENTS TO ELECTRICAL ROTATING MACHINES, INCLUDING THE BRUSHLESS ALTERNATORS (Machine translation)

Abstract: Source: FR1442344A [FR] (Claim 1) 1 Soit par des, liaisons souples etablies de l'exterieur aux sorties de fils induits;

Machine translation: (Claim 1) Either by one, flexible connections established from the interior to exterior outputs induced son,

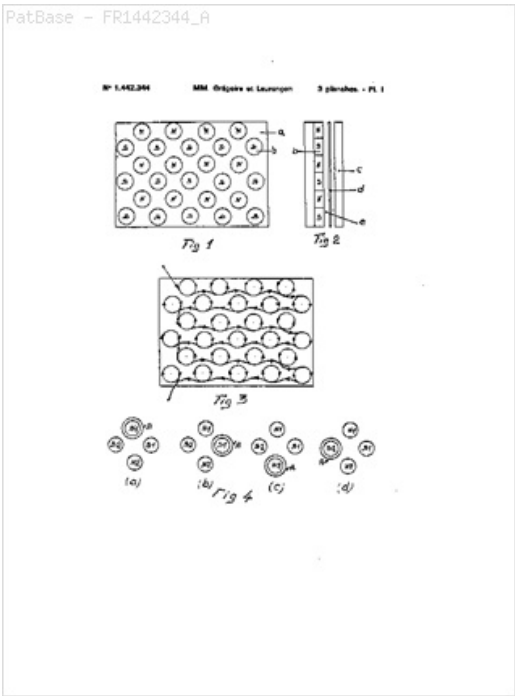
Classifications:

International (IPC 8-9): H02K21/26 (Advanced/Invention); H02K21/00 (Core/Invention)

International (IPC 1-7): H02K21/24

CPC: H02K21/26

European: H02K21/26



Family:

Publication number	Publication date	Application number	Application date
FR1442344 A	19660617	FR19650006768	19650224

Priority:

FR19650006768 19650224

Inventor(s): (std):

GREGOIRE MARCEL ; LAURENCON GILBERT

128) Family number: 11061821 (US5789836A)

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Title: MOTOR HAVING DYNAMIC PRESSURE BEARING DEVICE

Abstract: A motor having a dynamic pressure bearing device equipped with a rotor having a driving coil or a driving magnet, and a stator having the other of the driving coil or the driving magnet, the dynamic pressure bearing device comprising a shaft fixed to the rotor or the stator and having a dynamic pressure surface on its outer surface, a bearing body fixed to the other of the rotor or stator and having a dynamic pressure surface on its inner surface which is positioned to circumferentially confront the outer surface of the shaft body, a dynamic pressure generating groove formed on at least one side of both the dynamic pressure surfaces, and a lubricating fluid in which magnetic particles are dispersed in a base oil solvent containing an amine anti-gelling agent interposed between both of the dynamic pressure surfaces.

Classifications:

International (IPC 8-9): F16C17/02 F16C33/10 G11B19/20 H02K5/16 H02K5/167 H02K7/08 (Advanced/Invention);

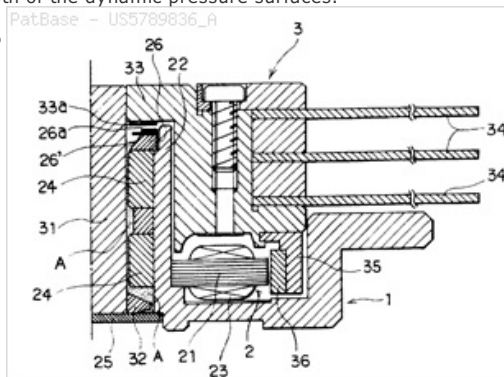
F16C17/02 F16C33/04 G11B19/20 H02K5/16 H02K5/167 H02K7/08 (Core/Invention)

International (IPC 1-7): F16C17/02 F16C33/10 F16C33/82 H02K5/167 H02K7/08

CPC: F16C2370/12 F16C33/746 F16C33/1035 G11B19/2009 H02K5/1675

European: F16C33/10 F16C33/10L2M F16C33/74L2M G11B19/20A H02K5/167D H02K5/16D

US: 310/156 310/156.26 310/90 384/107 384/133 G9B/019.028 G9B/19.028



Family:

Publication number	Publication date	Application number	Application date
JP8266006 A2	19961011	JP19950091551	19950325
JP8266007 A2	19961011	JP19950091552	19950325
JP8331797 A2	19961213	JP19960084625	19960313
US5789836 A	19980804	US19960622281	19960325

Priority:

JP19950091551 19950325
JP19960084625 19960313

JP19950091552 19950325

JP19950091553 19950325

Probable Assignee: SANKYO SEIKI MFG CO LTD

Assignee(s): (std): NIDEC SANKYO CORP ; SANKYO SEIKI SEISAKUSHO KK ; SANKYO SEIKO MFG CO LTD

Assignee(s): N A ; SANKYO SEIKO MFG CO ; SANKYO SEIKI MFG CO LTD

Inventor(s): (std): HAYAKAWA MASAMICHI

129) Family number: 28288837 (US2002130949A)

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Title: Optical deflection device and image forming apparatus equipped therewith

Abstract: An optical deflection device having a rotary body that is fixed on a bearing and is structured rotatably by a magnet arranged to face a coil provided on a base side, wherein the rotary body is made of a magnet and a polygon mirror is fixed on the rotary body.

Classifications:

International (IPC 8-9): B41J2/44 G02B26/10 G02B26/12 H04N1/113 (Advanced/Invention);

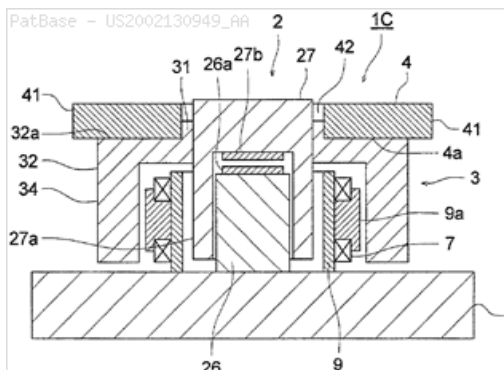
B41J2/44 G02B26/10 G02B26/12 H04N1/113 (Core/Invention)

International (IPC 1-7): B41J2/44 B41J27/00 G02B26/10 G02B26/12 H04N1/113

CPC: G02B26/121

European: G02B26/12B

US: 347/243 347/261



Family:

Publication number	Publication date	Application number	Application date
CN1248026 C	20060329	CN20021007344	20020315
CN1375722 A	20021023	CN20021007344	20020315
EP1245989 A2	20021002	EP20020251680	20020308
EP1245989 A3	20040811	EP20020251680	20020308

JP2002277804 A2	20020925	JP20010078492	20010319
US2002130949 AA	20020919	US20020081328	20020220
US6734892 BB	20040511	US20020081328	20020220

Priority:

JP20010078492 20010319

Probable Assignee: KONICA CORP

Assignee(s): (std): KOBAYASHI HIROSHI ; KONICA CORP ; KONISHIROKU PHOTO IND ; KUROSAWA TAKAAKI ; MATSUI SUSUMU

Inventor(s): (std): HIROSHI OHAYASHI ; KOBAYASHI HIROSHI ; KUROSAWA TAKAAKI ; MATSUI SUSUMU ; SHIN MATSUI ; TAKAAKI KUROSAWA ; TAKAAKI MATSUI SHIN OHAYASHI H

Inventor(s): OHAYASHI HIROSHI ; MATSUI SHIN ; MATSUI SHIN OHAYASHI HIROSHI KUROSAWA TAKAAKI

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

130) Family number: 20013849 (US1975620A)

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Title: COIL WINDING MACHINE

Abstract: 1. In a coil winding apparatus, the combination of a frame, a winding shaft rotatable in said frame, means mounted on said shaft for supporting a core to be wound in said machine, a master shaft, a removable sleeve on the end of said master shaft, a series of master coil units mounted on said sleeve and secured thereto in spaced relationship with respect to each other, each unit being provided with a screwthread extending the entire length of the outer surface thereof, a follower mounted on said frame to slide parallel to said master shaft and normally held in engagement with the outer surface of one of said master coil units, a wire guiding finger mounted in said frame to slide with said follower and extending to a point close to said core, a spring under tension connected to said follower and tending to draw said follower in a direction in which said follower is moved when it is in engagement with said master coil units and operative to draw said carrier and said wire guiding finger longitudinally from one master coil unit to the next the instant said follower arrives at the end of the thread of a master unit.

Classifications:

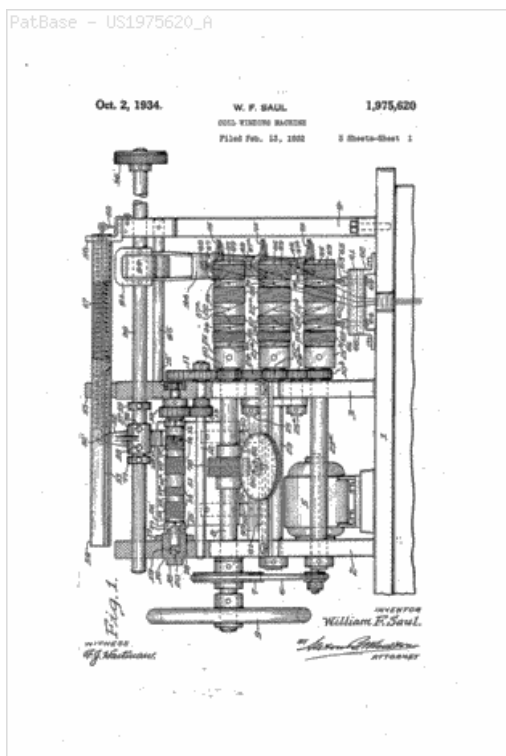
International (IPC 8-9): H01F41/06 (Advanced/Invention); H01F41/06 (Core/Invention)

International (IPC 1-7): H01F41/06

CPC: Y10T74/18312 Y10T74/2101 H01F41/098 H01F41/066 H01F41/076 H01F41/094

European: H01F41/06B1 H01F41/06E H01F41/06G H01F41/06I

US: 242/443.1 242/447.2 336/205 74/567 74/57



Family:

Publication number	Publication date	Application number	Application date
US1975620 A	19341002	US19320592727	19320213

Priority:

US19320592727 19320213

Probable Assignee:

SAUL WILLIAM F

Assignee(s): (std):

SAUL WILLIAM F

Inventor(s): (std):

SAUL WILLIAM F

131) Family number: 69581852 (WO18083406A1)

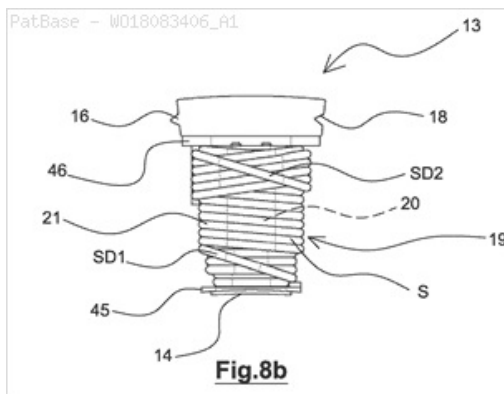
© PatBase

Title: ROTARY ELECTRIC MACHINE STATOR PROVIDED WITH ORTHOCYCLOCALLY WOUND COILS

Abstract: The invention pertains to an assembly including a coil insulator (20) comprising a transverse opening and a coil (19) formed by a wire (21) wound around said coil insulator (20); -said coil (19) comprising a plurality of layers of turns (S) superposed over one another; -each layer of turns comprising a set of coaxial turns (S), characterized in that said coil (19) comprises at least one first offset turn (SD1) passing over at least two turns (S) of a lower layer and in that said first offset turn.

Classifications:

International (IPC 8-9): H02K3/46 H02K3/52 (Advanced/Invention);



Family:

Publication number	Publication date	Application number	Application date
FR3058282 A1	20180504	FR20160060612	20161103
FR3058282 B1	20181026	FR20160060612	20161103
WO18083406 A1	20180511	WO2017FR52979	20171027

Priority:

FR20160060612 20161103

Probable Assignee: VALEO EQUIP ELECTR MOTEUR

Assignee(s): (std): VALEO EQUIP ELECTR MOTEUR ; VALEO EQUIPEMENTS ELECTRIQUES MOTEUR

Inventor(s): (std): GERVAIS HUGUES ; HANQUEZ MICHAEL ; LEROY VIRGINIE

Inventor(s): MICHAEL HANQUEZ ; VIRGINIE LEROY ; HUGUES GERVAIS

Agent(s): VALEO EQUIPEMENTS ELECTRIQUES MOTEUR; RICARD AMANDINE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UB UG UZ VC VN ZA ZM ZW

132) Family number: 30981856 (GB435196A)

Title: Improvements in or relating to electric oscillators and the like

Abstract: 435,196. Valve generating circuits. JOHNSTONE, D. M., and BAIRD TELEVISION, Ltd., 58, Victoria Street, Westminster. March 19, 1934, No. 8576. [Class 40 (v)] Discharge of the condenser of a saw-tooth oscillation generator is effected through the plate-cathode path of a back-coupled valve which breaks into oscillation as the plate current starts. The condenser 4 is slowly charged from a HT supply source through a resistance or constant-current device 5 and is rapidly discharged through the anode-cathode path of the triode or pentode valve 1. The valve 1 is back-coupled by the coils 2, 3 and the grid is biased by a potentiometer 10 so that no anode current passes during the charging period of the condenser 4. At a critical value of the voltage on this condenser, the valve breaks into self-oscillation at high frequency, and the voltage swing on the grid rapidly discharges the condenser 4 through the valve 1, until self-oscillation ceases and the condenser 4 begins to charge up again. Synchronizing pulses may be applied from the line 8 through a transformer or across a resistance. The saw-toothed voltage wave developed across the condenser 4 is applied through a condenser 19 and potentiometer 20 to the grid of triode or pentode amplifier 11 which may have the coil of a magnetic scanning device 21 in its anode circuit. In an alternative arrangement for an oscillator operating at line frequency, the anode circuit of the valve 11 may include a transformer with a centretapped secondary coil connected to electrostatic deflecting-plates.

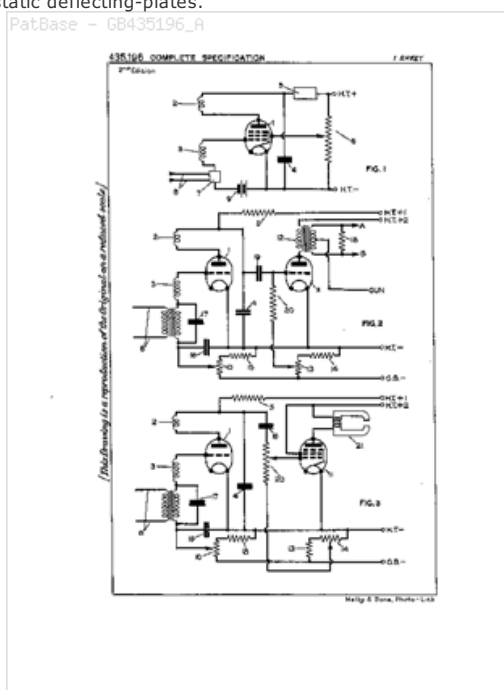
Classifications:

International (IPC 8-9): H03K3/543 H03K4/10 (Advanced/Invention);
H03K3/00 H03K4/00 (Core/Invention)

International (IPC 1-7): H03K4/90

CPC: H03K3/543 H03K4/10

European: H03K3/543 H03K4/10



Family:

Publication number	Publication date	Application number	Application date
BE408513 A	00000000		00000000
FR787540 A	19350924		19350319
GB435196 A	19350917	GB19340008576	19340319

Priority:

GB19340008576 19340319

Probable Assignee: BAIRD TELEVISION LTD

Assignee(s): (std): BAIRD TELEVISION LTD ; DAVID MALCOLM JOHNSTONE ; ROBERT LYON AND A T STOYANOWSKY

Assignee(s): BAIRD TELEVISION LIMITED

133) Family number: 21018865 (US2610259A)

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Title: ELECTROMAGNETIC VIBRATORY DEVICE

Abstract: 606,012. Electromagnets. STANDARD TELEPHONES and CABLES, Ltd., and ROBERTON, J. S. P. April 16, 1946, No. 11669. [Class 35] [Also in Group XXXIX] An electromagnetic vibratory device comprises a permanent magnet 2, an armature 6, and alternating current coils 15, poles 4 and 4¹ of like polarity being adjacent to each end of the centrally pivoted armature and a third pole formed by the permanent magnet 2 being adjacent the armature pivot. The alternating current flux flows between the two firstmentioned poles through the magnetic yoke 1 without passing through the permanent magnet 2. The armature plate 6 is slotted as at 7 and the ends of the tongues 8 are supported on the yoke, thus permitting the armature to pivot virtually around axis AB. An extension 13 on the plate operates the diaphragm 9 through a rod 12.

Classifications:

International (IPC 8-9): H04R1/22 H04R1/40 H04R11/00 H04R11/06 H04R13/00 (Advanced/Invention);

H04R1/22 H04R1/40 H04R11/00 H04R13/00 (Core/Invention)

International (IPC 1-7): H04R1/22 H04R1/40 H04R11/00 H04R11/06 H04R13/00

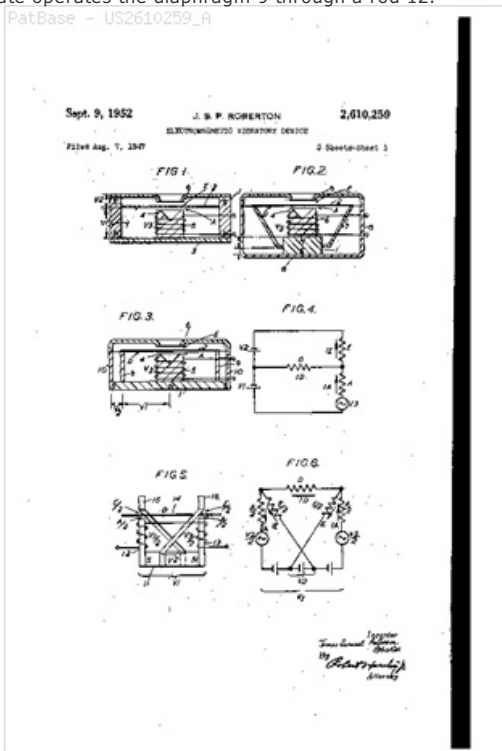
CPC: H04R1/225 H04R11/00 H04R11/06 H04R13/00 H04R2499/11 H04R1/406

European: H04R1/22C H04R11/00 H04R11/06 H04R13/00

T04R499/11

US: 381/417

PatBase - US2610259_A



Family:

Publication number	Publication date	Application number	Application date
BE476263 A	00000000		00000000
ES179487 A1	19471016	ES19470179487	19470828
FR61602 E	19550516		00000000
FR951325 A	19491029		00000000
GB606012 A	19480804	GB19460011669	19460416
GB624566 A	19490613	GB19460018739	19460621
GB666408 A	19520213	GB19480027453	19481022
GB677225 A	19520813	GB19470015648	19470613
GB677235 A	19520813	GB19480028856	19481105
US2610259 A	19520909	US19470767241	19470807

Priority:

GB19460018739 19460621 GB19480027453 19481022

Probable Assignee: JAMES SAMUEL PATERSON ROBERTON

Assignee(s): (std): INT STANDARD ELECTRIC CORP ; JAMES SAMUEL PATERSON ROBERTON ; STANDARD ELECTRICA SA ; STANDARD TELEPHONES CABLES LTD

Assignee(s): STANDARD TELEPHONES AND CABLES LTD ; STANDARD ELECTRICA S A

Inventor(s): (std): MEED HENRY ROBERT ; PATERSON ROBERTON JAMES SAMUEL ; ROBERTON JAMES SAMUEL PATERSON ; ROBERTON JAMES SAMUEL PETERSON ; CHAPMAN ROGER

134) Family number: 29501874 (DE10305547A1)

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Title: Stator module for brushless D.C. electric motor drive, e.g. for electromechanical wheel brake, has sprung contact between coil leads, and coils provided by attaching control unit or terminal to stator housing

Abstract: The device has annular coil carriers (2,3) for annular coils (A-C) arranged adjacent to each other in the axial direction in a cylindrical stator housing carrying an electronic control unit or a terminal for brushless control or regulation of the coil supply current. The electrical leads for the coils are arranged on the control unit in a sprung manner and a sprung contact between the leads and the coils is provided by attaching the control unit or terminal to the stator housing. AN Independent claim is also included for the following: (a) a method of manufacturing an inventive stator module.

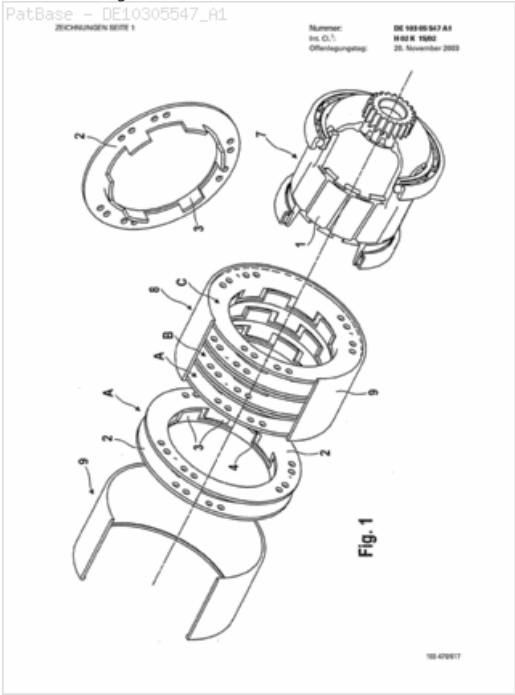
Classifications:

International (IPC 8-9): H02K1/14 H02K1/18
H02K3/52 (Advanced/Invention);
H02K1/14 H02K1/18 H02K3/46 (Core/Invention)

International (IPC 1-7): H02K15/02

CPC: H02K1/145 H02K1/185 H02K3/525

European: H02K1/14C H02K1/18B H02K3/52A3



Family:

Publication number	Publication date	Application number	Application date
DE10305547 A1	20031120	DE20031005547	20030210

Priority:

DE20021005515 20020208 DE20031005547 20030210

Probable Assignee: CONTINENTAL TEVES AG AND CO OHG

Assignee(s): (std): CONTINENTAL TEVES AG AND CO OHG ; CONTINENTAL TEVES AND CO OHG AG

Inventor(s): (std): RIETH PETER E ; LINKENBACH STEFFEN ; JUNGBECKER JOHANN ; HOFFMANN OLIVER ; ECKERT ALFRED

135) Family number: 32811879 (US2006055275A)

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Title: STATOR OF MOTOR

Abstract: A stator of a motor having various shapes and capable of minimizing the manufacturing costs. At least teeth are manufactured by the iron powder metallurgy method. In order to obtain the overhang effect, the height of a tip of each tooth is lower than the height of a rotor and the height of a yoke is higher than the height of a tip of each tooth so as to minimize the core loss of the yoke. Since, in order to minimize the end coil, the height of a neck of each tooth is gradually higher as running from the sides to the central portion in the circumferential direction, costs for manufacturing a motor can be minimized and sufficient efficiency can be obtained.

Classifications:

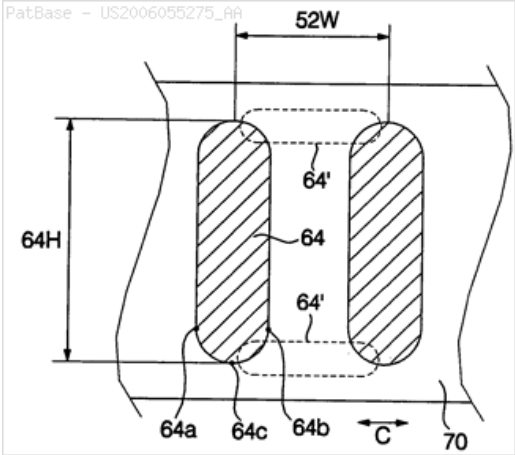
International (IPC 8-9): H02K1/02 H02K1/06 H02K1/12 H02K1/14
H02K1/16 H02K1/18 H02K1/28 H02K15/02 H02K17/00 H02K3/12
H02K41/035 (Advanced/Invention);

H02K1/14 (Advanced/Non-invention);
H02K1/00 H02K1/06 H02K1/12 H02K1/14 H02K1/16 H02K1/18
H02K1/28 H02K17/00 (Core/Invention)

CPC: H02K1/146 H02K1/02 H02K1/148 H02K21/16

European: H02K1/14D H02K1/14D1 H02K21/16 T02K1/02

US: 310/216 310/216.041 310/216.041P 310/216.067 310/216.067S
310/218 310/259



Family:

Publication number	Publication date	Application number	Application date
AU2005203421 AA	20060316	AU20050203421	20050802
AU2005203421 BB	20071220	AU20050203421	20050802
CN100399675 C	20080702	CN200510096563	20050825

CN1741347 A	20060301	CN200510096563	20050825
DE602005036349 D1	20121129	DE200560036349T	20050802
EP1630929 A2	20060301	EP20050016776	20050802
EP1630929 A3	20060510	EP20050016776	20050802
EP1630929 B1	20121003	EP20050016776	20050802
JP2006067789 A2	20060309	JP20050242254	20050824
KR100673442 B1	20070124	KR20040067202	20040825
KR20060018704 A	20060302	KR20040067202	20040825
RU2005126790 A	20070227	RU20050126790	20050824
RU2330370 C2	20080727	RU20050126790	20050824
US2006055275 AA	20060316	US20050203248	20050815
US7372184 BB	20080513	US20050203248	20050815

Priority:

KR20040067202 20040825 EP20050016776 20050802

Probable Assignee: LG ELECTRONICS

Assignee(s): (std): LG ELECTRONICS ; LG ELECTRONICS INC

Assignee(s): EHL DZHI EHLEKTRONIKS INK

Inventor(s): (std): KIM BUNG TEHK ; KIM BYUNG T ; KIM BYUNG TAEK ; PARK DZIN SOO ; PARK JIN S ; PARK JIN SOO ; SHIM DZANG KHO ; SHIM JANG H ; SHIM JANG H PARK JIN S KIM BYU ; SHIM JANG HO

Inventor(s): SHIM JANG ; PARK JIN ; KIM BYUNG ; BYUNG TAEK KIM ; JANG HO SHIM ; JIN SOO PARK

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; TER MEER STEINMEISTER AND PARTNER PATENTANWAELTE MBB; URNER PETER; AOKI ATSUSHI; TSURUTA JUNICHI; SHIMADA TETSURO; NISHIYAMA MASAYA; BIRCH STEWART KOLASCH AND BIRCH; BIRCH STEWART KOLASCH AND BIRCH LLP

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

136) Family number: 28268879 (US2002196121A)

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Title: E-I OR E-E TRANSFORMER

Abstract: With such a transformer, signals which are independent of each other are to be transferable simultaneously, without the signals interfering with each other. The E-I transformer (10, 10') has an E core (E, E'), which has two outer legs (ES1, ES2) and an inner leg (EM), and a yoke (I) which combines with the E core to form a doubly closed magnetic circuit. A first coil (1) and a second coil (2, 2') are wound around the inner leg (EM), and a third coil (3) and a fourth coil (4, 4') are wound around one (ES1) of the outer legs. The E-E transformer (20, 20') has a first E core (E1, E1') and an identical second E core (E2, E2'); each E core has two outer legs (ES11, ES21, ES11', ES21'; ES12, ES22, ES12', ES22') and an inner leg (EM1, EM1'; EM2, EM2'); the E cores together form a doubly closed magnetic circuit and two outer links (ST1, ST1', ST2, ST2') as well as an inner link (STM, STM'). A first coil (6) and a second coil (7, 7') are wound around the inner link, and a third coil (8) and a fourth coil (9, 9') are wound around the outer link (ST1, ST1'). The coils on each leg or link may be wound side by side or one above another. The coils on the inner leg or link and those on the outer leg or link form part of different AC power transmission paths.

Classifications:

International (ipc 8-9): H01F27/38 H01F30/00

H01F38/14 (Advanced/Invention);

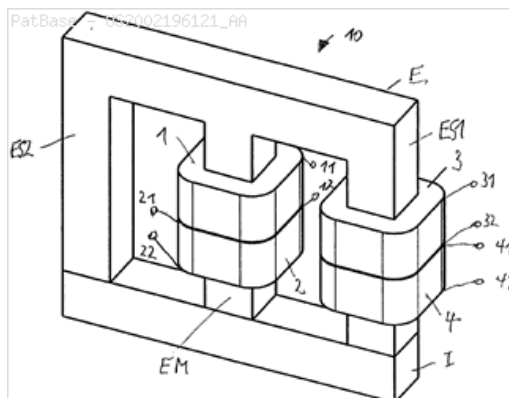
H01F27/34 (Core/Invention)

International (ipc 1-7): H01F27/24 H01F27/38 H01F30/00

CPC: H01F27/38 H01F30/04 H01F2038/143

European: H01F27/38 T01F30/04 T01F38/14A

US: 336/212 336/5



Family:

Publication number	Publication date	Application number	Application date
AT497629 E	20110215	AT20020751041T	20020619
DE50214897 D1	20110317	DE20025014897	20020619
DK1399934 T3	20110418	DK20020751041T	20020619
EP1271576 A1	20030102	EP20010115366	20010626
EP1399934 A1	20040324	EP20020751041	20020619
EP1399934 B1	20110202	EP20020751041	20020619
JP2004531090 T2	20041007	JP20030509475T	20020619
US2002196121 AA	20021226	US20020179029	20020626
US6831545 BB	20041214	US20020179029	20020626
WO03003391 A1	20030109	WO2002EP06738	20020619

Priority:

EP20010115366 20010626 US20010314629P 20010827 EP20020751041 20020619
WO2002EP06738 20020619 US20020179029 20020626

Probable Assignee: ENDRESS AND HAUSER FLOWTEC AG

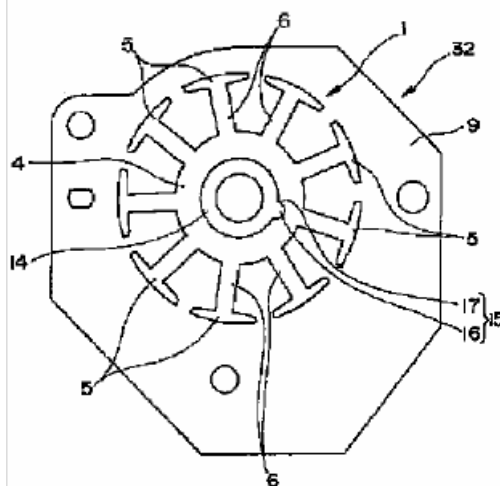
Assignee(s): (std): FLOWTEC AG ; KARBULA JIRI

Assignee(s): ENDRESS AND HAUSER FLOWTEC AG

Inventor(s): (std): KARBULA JIRI

Agent(s): ANDRES ANGELIKA MARIA; OSUGA YOSHIYUKI

PatBase PDF Export - Page: 105 06/06/2019

**Family:**

Publication number	Publication date	Application number	Application date
JP10336941 A2	19981218	JP19970151620	19970526

Priority:

JP19970151620 19970526

Probable Assignee: MITSUMI ELECTRIC CO LTD**Assignee(s):** (std): MITSUMI ELECTRIC CO**Assignee(s):** MITSUMI ELECTRIC CO LTD**Inventor(s):** (std): KOMAKI TATSUYA ; MATSUBARA HIDEYUKI ; YAMAMOTO RYUJI**139) Family number: 43429924** (US2009158748A)

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Title: DIRECT INDUCTION COMBUSTOR/GENERATOR

Abstract: A combustor/coil assembly for direct electromagnetic induction from a detonation wave comprises an annular combustor, a magnetic field source and a port. The annular combustor comprises an inner liner and a coaxial outer liner. The outer liner is electrically insulated from the inner liner. The magnetic field source generates a substantially axial magnetic field inside the annular combustor. The port introduces reactants into the annular combustor to form the detonation wave. The detonation wave induces a voltage between the inner liner and the outer liner by forming a current loop between the inner liner and the outer liner.

Classifications:**International (IPC 8-9):** F02C5/00 F02C6/00 F02C6/04

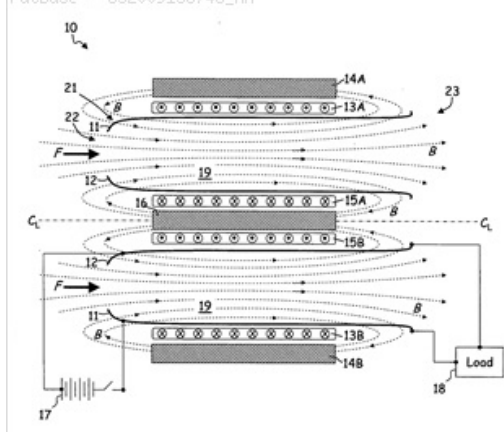
H02K7/18 (Advanced/Invention);

H02N3/00 (Advanced/Non-invention);

F02C6/00 H02K7/18 (Core/Invention)

CPC: F23R7/00 H02K44/08**European:** F23R7/00 H02K44/08**US:** 290/52 290/52S 310/10 60/39.76 60/752 60/752S 60/772 60/772S 60/801 60/801P

PatBase - US2009158748_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2009158748 AA	20090625	US20070004660	20071221
US8146371 BB	20120403	US20070004660	20071221

Priority:

US20070004660 20071221

Probable Assignee: UNITED TECHNOLOGIES CORP**Assignee(s):** (std): NORDEEN CRAIG A ; UNITED TECHNOLOGIES CORP**Inventor(s):** (std): NORDEEN CRAIG A

140) Family number: 2708930 (EP0027308A1)

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Title: Manufacture and use of magnetic scale systems.

Abstract: A magnetic scale system for measuring a linear (or angular) displacement of relatively-moveable parts, for example in a machine tool, includes a magnetic scale tape (1-2) having equally-spaced magnetic marking portions (1-3) exhibiting N and S poles at the respective surfaces of the tape. The tape moves between magnetic sensing head units (2,3) an output electric signal being produced by a sensing coil (2-2) of the unit (2) and supplied to a processing circuit (6) which is arranged to drive up/down display counter (9). The direction of magnetisation in the respective marking portions (1-3) alternates. These portions have been produced by firstly rendering those portions magnetically anisotropic in the desired direction of magnetisation, and then by magnetising those anisotropic portions in the desired directions. Greatly increased fluxes can be produced in this way, to give greater signal/noise ratio in operation. A booster (3-2) is energised by a power supply (4) under the switching control of the processing circuit (6) to enhance the magnetisation of the sensing head due to the scale marking portions (1-3). Variations of the sensing head (2,3) are shown in other figures. In other figures means are shown for cyclically vibrating the magnetic yoke arms of the sensing head, so as to cyclically modulate the flux caused to flow in the sensing head yokes by the magnetic marking portions (1-3).

Classifications:

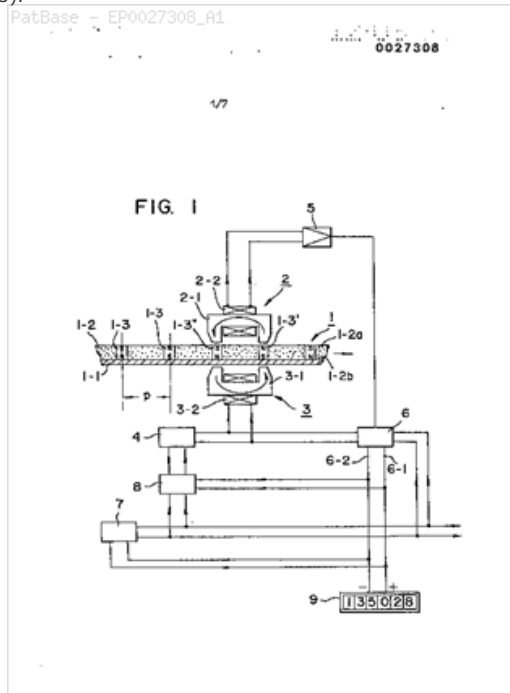
International (IPC 8-9): G01B7/00 G01B7/02 G01D5/14 G01D5/245 G11B5/35 (Advanced/Invention);

G01B7/02 G01D5/12 G11B5/33 (Core/Invention)

International (IPC 1-7): G01B1/00 G01B7/00 G01B7/02 G01D5/12 G01D5/245 G11B5/36 H01F1/04

CPC: G01D5/14

European: G01D5/14

**Family:**

Publication number	Publication date	Application number	Application date
DE3069509 D1	19841129	DE19803069509	19800815
EP0027308 A1	19810422	EP19800302815	19800815
EP0027308 B1	19841024	EP19800302815	19800815
JP1598032 C3	19910128	JP19790104040	19790817
JP1649419 C3	19920330	JP19790105441	19790817
JP2010365 B4	19900307	JP19790104040	19790817
JP56027602 A2	19810318	JP19790103602	19790816
JP56029114 A2	19810323	JP19790104040	19790817
JP56029115 A2	19810323	JP19790105441	19790817
JP62057929 B4	19871203	JP19790105441	19790817

Priority:

JP19790103602 19790816 JP19790104040 19790817 JP19790105441 19790817

Probable Assignee:

INOUE JAPAX RES

Assignee(s): (std):

INOUE JAPAX RES

Assignee(s):

INOUE JAPAX RESEARCH INC

Inventor(s): (std):

INOUE KIYOSHI

Inventor(s):

INOUE KYOSHI

Designated states:

DE FR GB IT

141) Family number: 22258934 (US2586713A)

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Title: APPARATUS FOR CONTROLLING THE RATE OF POURING FLUID MATERIAL FROM ONE CONTAINER INTO ANOTHER

Abstract: (Claim 1) 1. Apparatus for controlling 'the position of a 4.r) ,, 0 movable member- comprising, in combination, mechanism operable to adjust the Position of the member; a variable speed electric motor for operatin.- said mechanism; a differential comparison device baving a rotatable output element and a pair of inputs; means operatively in_erconnecting said mechanism and one input constructed and arranged to impress on such one input a value corresponding to the inotor speed; means operatively connected to the other input and constructed and arranged to iinpress thereon a value corresponding to a desired motor speed; said output member rotating at a speed and in a direction dependent upon the difference of such values; a first clutch component rigidly secured to rotate with said output element; a second clutch

component frictionally driven by said first component to rotate with said output elements; a motor speed controller associated with the motor and includin, means operable by said second component, innmediately upon 6(rotation of said output element in either direction due to a difference of such values, to initiate a corrective variation in the motor speed, and means operable by said first component, upon a substantial continued rotation of said output (;5 element in either direction, to effect a major corrective change in the motor speed; said last named means, when operated, deactivating the means actuated by said second component; said second component slipping relative to said first component, during, such continued rotation, to remain in position to irnmeditely effect a reverse corrective variation in the motor speed if the direction of rotation of said output element is reversed. to control pouring in any desired operation. Ad- la

Classifications:

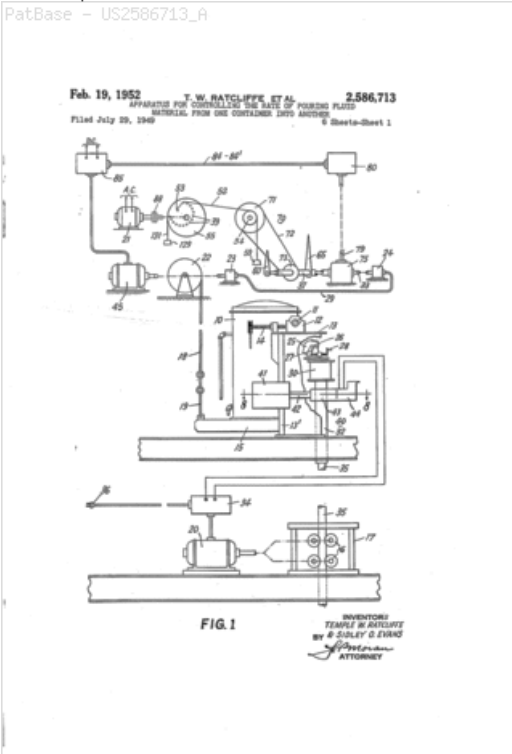
International (IPC 8-9): B22D11/16 B22D39/00 (Advanced/Invention); B22D11/16 B22D39/00 (Core/Invention)

International (IPC 1-7): B22D11/10 G05D11/035

CPC: B22D39/00 B22D11/16 Y10T74/2102

European: B22D11/16 B22D39/00

US: 164/337 164/413 164/438 164/450.2 222/56 251/64 318/676 74/568R



Family:

Publication number	Publication date	Application number	Application date
US2586713 A	19520219	US19490107506	19490729

Priority:

US19490107506 19490729

Probable Assignee: BABCOCK AND WILCOX CO
Assignee(s): (std): BABCOCK AND WILCOX CO
Assignee(s): THE BABCOCK AND WILCOX COMPANY
Inventor(s): (std): EVANS SIDLEY O ; RATCLIFFE TEMPLE W

142) Family number: 40505938 (US2007253296A)

PatBase

Title: OPTICAL PICKUP UNIT AND OPTICAL DISC APPARATUS

Abstract: An optical pickup unit is disclosed which comprises: an objective lens that focuses laser light on an optical disc; a lens holder that holds the objective lens; a coil that is fitted on the lens holder and capable of driving the lens holder; and a heat transfer improving member that is fitted on the holder to cause heat to be radiated, wherein the heat is generated in the coil when the coil is energized.

Classifications:

International (IPC 8-9): G11B33/14 G11B7/00 G11B7/09

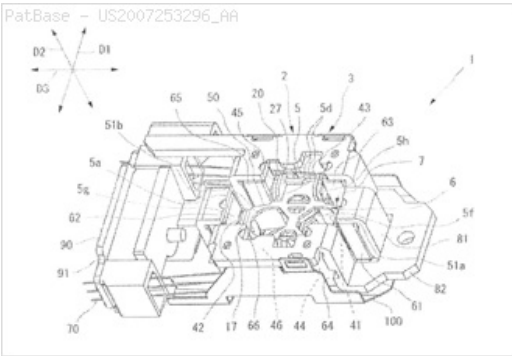
G11B7/12 (Advanced/Invention);

G11B7/00 G11B7/09 G11B7/12 (Core/Invention)

CPC: G11B7/0935

European: G11B7/09D6

US: 369/112.23 369/112.230P 369/44.14 369/44.15 G9B/7.085



Family:

Publication number	Publication date	Application number	Application date
CN101013579 A	20070808	CN200710007974	20070201
CN101013579 B	20110330	CN200710007974	20070201
CN101826343 A	20100908	CN201010128651	20070201
CN101826343 B	20111228	CN201010128651	20070201
JP2007234205 A2	20070913	JP20060281176	20061016
JP2011048904 A2	20110310	JP20100271919	20101206

US2007253296 AA	20071101	US20070669754	20070131
US2010246370 AA	20100930	US20100781555	20100517
US7746733 BB	20100629	US20070669754	20070131
US8050152 BB	20111101	US20100781555	20100517

Priority:

JP20060024281 20060201 JP20060281176 20061016 US20070669754 20070131
 US20100781555 20100517 JP20100271919 20101206

Probable Assignee: SANYO ELECTRIC CO LTD

Assignee(s): (std): SANYO ELECTRIC CO ; SANYO OPTEC DESIGN CO LTD ; SANYO OPTICAL DESIGN KK

Assignee(s): SANYO OPTIC DESIGN KK ; SANYO ELECTRIC CO LTD ; SANYO ELECTRIC CORP ; SANYO OPTEC DESIGN CO

Inventor(s): (std): HIBINO KIYOSHI ; TOUNO TAKAMITSU ; IIJIMA AKIRA ; TAKAMITSU HIGASHINO ; SEIJI HIBINO ; YOSHIKI IIJIMA ; HIBINO SEIJI ; TONO TAKAMITSU ; SEIJI IIJIMA YOSHIKI HIGASHINO ; AKIRA IIJIMA ; TAKAMITSU TOUNO ; KIYOSHI HIBINO

Inventor(s): IIJIMA YOSHIKI HIGASHINO TAKAMITSU HIBINO SEIJI ; HIGASHINO TAKAMITSU ; IIJIMA YOSHIKI

Agent(s): FISH AND RICHARDSON PC

143) Family number: 34381943 (US2007081263A)

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Title: VIBRATION TYPE TILTING DEVICE AND DAMPING ADJUSTMENT METHOD THEREFOR

Abstract: A vibration type tilting device, according to an embodiment of the invention, which comprises a mirror holder, supporting a mirror on one side, which tilts together with the mirror such that the mirror periodically tilts light on a light path in a minute angle; a holder support part supporting the mirror holder; a driving part, which supplies driving power to the mirror holder; and a damping part comprising a gap adjustment member capable of changing the gap between a portion of the mirror holder and a portion of the holder support part, provides superior vibration characteristics, as the viscous fluid is not heated by the driving part.

Classifications:

International (IPC 8-9): G02B26/08 G02B7/182

H04N5/74 (Advanced/Invention);

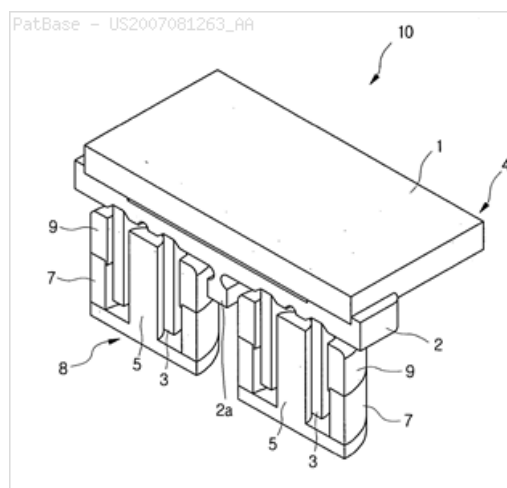
H04N5/74 (Advanced/Non-invention);

G02B26/08 G02B7/182 H04N5/74 (Core/Invention)

CPC: G02B7/1821 G03B21/54 H02K16/00 H02K33/18

European: G02B7/182B G03B21/54 H02K33/18 T02K16/00

US: 359/198 359/198.1 359/199.1 359/871



Family:

Publication number	Publication date	Application number	Application date
KR100709552 B1	20070420	KR20050081341	20050901
KR20070025319 A	20070308	KR20050081341	20050901
US2007081263 AA	20070412	US20060514311	20060901
US7529009 BB	20090505	US20060514311	20060901

Priority:

KR20050081341 20050901

Probable Assignee: SAMSUNG ELECTRO MECHANICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRO MECH

Assignee(s): SAMSUNG ELECTRO MECHANICS CO ; SAMSUNG ELECTRO MECHANICS CO LTD

Inventor(s): (std): CHOI DONG WON ; KIM CHANG SUNG ; KIM JAE KYUNG ; LEE CHIL SUNG ; MOON YANG HO ; PARK KYOUNG SHIN ; WOO KI SUK

Agent(s): STAAS AND HALSEY LLP

144) Family number: 2274949 (US4463290A)

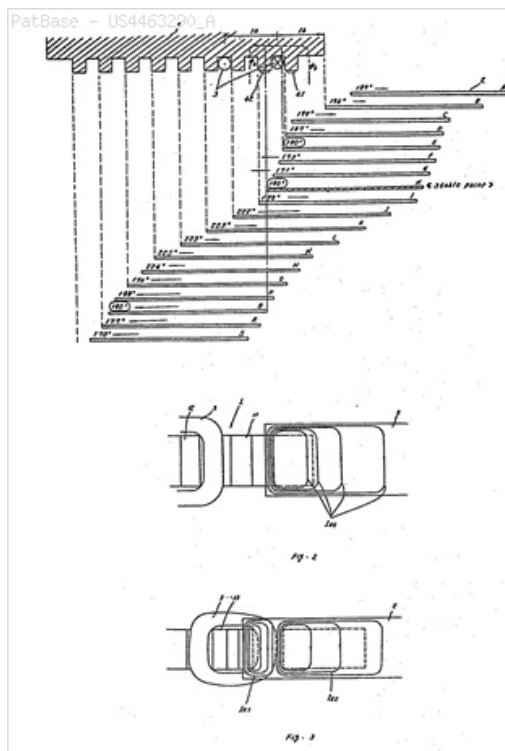
© PatBase

Title: Induction type positioning system

Abstract: An induction type positioning system which accurately stops a movable part without a contact and holds it in the stopped position without depending on the friction force of mechanical contact is disclosed. A primary core consisting of a main pole, an auxiliary pole, and a single phase AC magnetic field generation coil, and a conductive plate which moves relative to this primary core, generate a holding force for suppressing the relative movement between the primary core and the conductive plate by use of the eddy current which is induced on the conductive plate by the field generated by the main pole at the position where the conductive plate is placed on the auxiliary pole and simultaneously the edge of the conductive plate is placed on the main pole, and by use of the eddy current which is induced on the conductive plate by the field generated from the auxiliary pole. This structure provides a positioning system and simple braking mechanism such that positioning is not dependent on mechanical friction, thus, avoiding the heat, smell, smoke and noise associated with the conventional mechanical system. For this reason, the system is particularly suited for installation within an office system.

Classifications:

International (IPC 8-9): H02K29/06 H02K41/02 H02N15/02 H02P25/06 H02P3/06 (Advanced/Invention); H02K29/06 H02K41/02 H02N15/00 H02P25/02 H02P3/06 (Core/Invention)
International (IPC 1-7): G05B11/00 H02K29/04 H02K29/10 H02K41/02 H02N15/02 H02P3/06
CPC: H02K41/02 H02K29/06 H02N15/02 H02P3/06
European: H02K29/06 H02K41/02 H02N15/02 H02P3/06
US: 318/135 318/467 318/687 318/757



Family:

Publication number	Publication date	Application number	Application date
CA1178654 A1	19841127	CA19810379079	19810605
DE3170479 D1	19850620	DE19813170479	19810605
EP0041846 A1	19811216	EP19810302504	19810605
EP0041846 B1	19850515	EP19810302504	19810605
JP1387426 C3	19870714	JP19800076164	19800606
JP1497900 C3	19890529	JP19850117032	19850530
JP57003588 A2	19820109	JP19800076164	19800606
JP61052639 B4	19861114	JP19800076164	19800606
JP61112582 A2	19860530	JP19850117032	19850530
JP63003553 B4	19880125	JP19850117032	19850530
US4463290 A	19840731	US19810271044	19810605

Priority:

JP19800076164 19800606 CA19810379079 19810605 JP19850117032 19850530

Probable Assignee: FUJITSU LTD

Assignee(s): (std): FUJITSU LTD

Assignee(s): MIYAZAKI TOSHIMASA ; ASAKAWA KAZUO ; FUJITSU LIMITED

Inventor(s): (std): ASAKAWA KAZUO ; MIYAZAKI TOSHIMASA

Inventor(s): MYAZAKI TOSHIMASA

Agent(s): FETHERSTONHAUGH AND CO

Designated states: DE FR GB

145) Family number: 28198976 (US2002053278A)

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Title: Linear medium pulling and retrieval system

Abstract: A generalized, rationally-scaled design is disclosed for a line laying system for use in stringing communications cable across generalized spaces. The system includes a tethered projectile which is accurately aimed and launched to a defined target zone by means of a energy-store coupled with a pivoting release lever. The geometric details of placement of the pivot axis of the release lever are disclosed in detail. Specific configurations of the projectile guides and spring support ribs are also disclosed. Implications of design and materials upon accuracy and range are considered and optimal component finishes and tolerances are indicated.

Classifications:

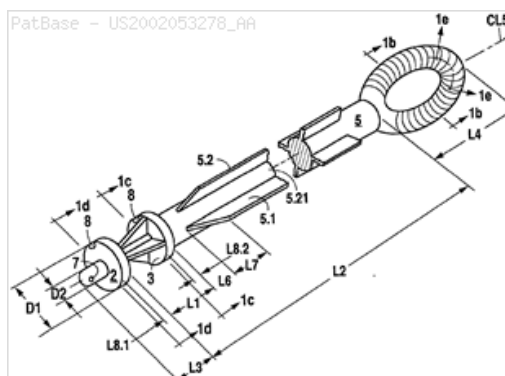
International (IPC 8-9): B63C9/26 F41B7/00 F42B12/68 G02B6/44 G02B6/50 H02G1/08 (Advanced/Invention); B63C9/00 F41B7/00 F42B12/02 G02B6/44 G02B6/46 H02G1/08 (Core/Invention)

International (IPC 1-7): B63C9/26 B64D1/04 F41B7/04 F41F5/00

CPC: B63C9/26 F41B7/00 F42B12/68 G02B6/4465 G02B6/502 H02G1/081 H02G1/085

European: B63C9/26 F41B7/00 F42B12/68 G02B6/44C8E3 G02B6/50D H02G1/08B H02G1/08D

US: 42/51 89/1.34 89/134



Family:

Publication number	Publication date	Application number	Application date
EP1068129 A1	20010117	EP19990964206	19991209
US2002053278 AA	20020509	US20010893224	20010627
US6681676 BB	20040127	US20010893224	20010627
WO0034117 A1	20000615	WO1999US29328	19991209
WO0034117 C2	20011004	WO1999US29328	19991209

Priority:

US19980111573P 19981209 US19990432327 19991102 WO1999US29328 19991209
US20010893224 20010627

Probable Assignee: HALO PRODUCTS LLC

Assignee(s): (std): FORSBERG FRANCIS C ; HALO PRODUCTS LLC ; HAYES ROGER D

Inventor(s): (std): FORSBERG FRANCIS C ; HAYES ROGER D ; HAYES ROGER DALE ; FORSBERG FRANCIS CHANDLER

Designated states: AT BE CA CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

146) Family number: 54963977 (EP2654179A1)

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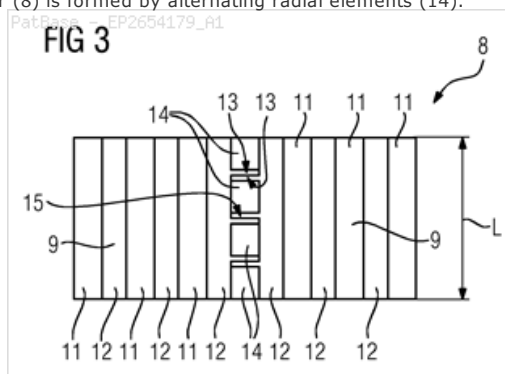
Title: SEGMENTED STATOR OF AN ELECTRICAL MACHINE STATOR SEGMENTE D'UNE MACHINE ELECTRIQUE

Abstract: Stator (8) for an electrical machine, in particular for a generator of a wind turbine, comprising a plurality of interconnected stator segments (9) forming a generally annular structure, each stator segment (9) including a base member (yoke) and a plurality of radial protrusions (11) projecting radial outwards from the base member (yoke) and adapted to support conductive windings, wherein two adjacent stator segments (9) comprise corresponding connecting portions (13) that positively engage each other, wherein each connecting portion (13) comprises at least one radial element (14) projecting radial outwards so that one of the radial protrusions (11) of the stator (8) is formed by alternating radial elements (14).

Classifications:

International (IPC 8-9): H02K1/02 H02K1/14 H02K1/16
H02K7/18 (Advanced/Invention)

CPC: H02K1/148 Y02E10/725 H02K7/1838 H02K2213/12

**Family:**

Publication number	Publication date	Application number	Application date
CN203445706 U	20140219	CN201320193319U	20130417
DE102013205966 A1	20131017	DE201310205966	20130404
EP2654179 A1	20131023	EP20120164432	20120417

Priority:

EP20120164432 20120417

Probable Assignee: SIEMENS AG

Assignee(s): (std): SIEMENS AG

Inventor(s): (std): MADSEN ANDERS JAKOB ; ANDERS JAKOB MADSEN

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO
PL PT RO RS SE SI SK SM TR

147) Family number: 17123984 (US5222878A)

© PatBase

Title: Electromagnetic reciprocating pump

Abstract: An electromagnetic reciprocating pump comprising of a closed-type casing provided with a cylinder in front thereof, a main shaft as least the front end of which is fixed to the casing, a piston having a piston head in front thereof, which piston is slidably fitted over the outer periphery of the main shaft to reciprocate, and coaxially supporting an armature, a spring disposed between the piston and the casing for biasing the piston in one direction, an electromagnet fixed to the casing so as to attract the armature in the opposite direction against the biasing force of the spring, suction ports and suction valves for sucking a fluid into a pressure chamber defined by the cylinder and the piston head, and a discharge port and a discharge valve for discharging the pressurized fluid from the pressure chamber.

Classifications:

International (IPC 8-9): F04B17/04 F04B35/04
F04B53/08 (Advanced/Invention);

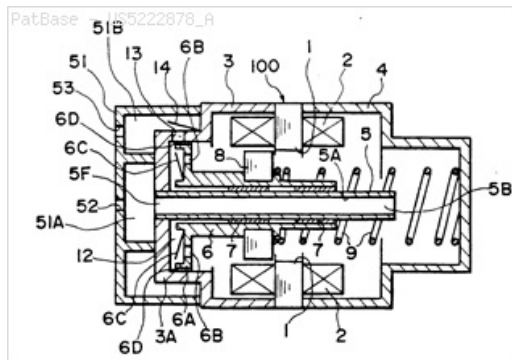
F04B17/03 F04B35/00 F04B53/00 (Core/Invention)

International (IPC 1-7): F04B17/04 F04B19/22 F04B21/04 F04B35/04

CPC: F04B17/046 F04B53/08

European: F04B17/04D F04B53/08

US: 417/366 417/417



Family:

Publication number	Publication date	Application number	Application date
AU199210436 A1	19920820	AU19920010436	19920123
AU637739 B2	19930603	AU19920010436	19920123
DE69201199 D1	19950302	DE19926001199	19920124
DE69201199 T2	19950817	DE19926001199T	19920124
EP0499367 A2	19920819	EP19920300606	19920124
EP0499367 A3	19921014	EP19920300606	19920124
EP0499367 B1	19950118	EP19920300606	19920124
JP2520341 Y2	19961218	JP19910011456U	19910212
JP4104177 U1	19920908	JP19910011456U	19910212
KR950007397 Y1	19950911	KR19910023354U	19911221
US5222878 A	19930629	US19920827712	19920129

Priority:

JP19910011456 19910212 JP19910011456U 19910212

Probable Assignee: NITTO KOHKI CO

Assignee(s): (std): NITTO KOHKI CO

Assignee(s): NITTO KOHKI CO LTD ; NITTO KOHKI CO LTD TOKIO TOKYO JP

Inventor(s): (std): MASAOKI TANABE ; MIKIYA DOSHIO ; MIKIYA TOSHIO ; MORI DAMOZ ; MORI TAMOTSU ; MORI TAMOTSU C O NITTO KOHKI C ; OSADA DOSHIO ; OSADA TOSHIO ; OSADA TOSHIO C O NITTO KOHKI C ; TAMOTSU MORI ; TANABE MASAOKI ; TANABE MASAOKI C O NITTO KOHKI ; TOSHIO MIKIYA ; TOSHIO OSADA

Inventor(s): TANABE MASAOKI C O NITTO KOHKI CO ; TANABE MASAOKI C O NITTO KOHKI CO LTD ; TANABE MASAOKI C O NITTO KOHKI CO LTD TOKYO JP ; OSADA TOSHIO C O NITTO KOHKI CO ; OSADA TOSHIO C O NITTO KOHKI CO LTD ; OSADA TOSHIO C O NITTO KOHKI CO LTD TOKYO JP ; MORI TAMOTSU C O NITTO KOHKI CO ; MORI TAMOTSU C O NITTO KOHKI CO LTD ; MORI TAMOTSU C O NITTO KOHKI CO LTD TOKYO JP ; MIKIYA TOSHIO TOKYO JP

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

Designated states: DE FR GB SE

148) Family number: 53081985 (US2014191751A)

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Title: MAGNETIC TESTING METHOD AND APPARATUS

Abstract: A magnetic testing method and apparatus can accurately detect a flaw by magnetizing a test object to such a degree that the object becomes magnetically saturated while solving the problems of a large magnetizing device is required when only a DC magnetic field is applied and that the test object generates heat when only an AC magnetic field is applied. A magnetic testing apparatus comprises a first magnetizing device for applying a DC bias magnetic field to a test object P in substantially parallel to the direction in which a flaw F to be detected extends, a second magnetizing device for applying an AC magnetic field to the test object P substantially perpendicularly to the direction in which the flaw F to be detected extends, and a detecting device for detecting leakage flux produced by the magnetization of the test object P accomplished by the first and second magnetizing devices.

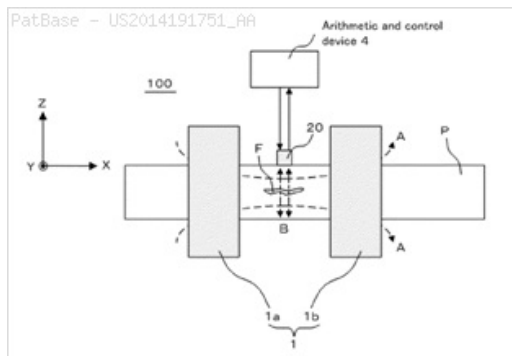
Classifications:

International (IPC 8-9): G01N27/82 G01N27/83 (Advanced/Invention);

G01N27/90 (Advanced/Non-invention)

CPC: G01N27/82 G01N27/83 G01N27/902

US: 1/1 324/232



Family:

Publication number	Publication date	Application number	Application date
AR087581 AA	20140403	AR2012P103026	20120816
BR112013031968 A2	20161220	BR20131131968	20120815
CA2837283 AA	20131125	CA20122837283	20120815
CA2837283 C	20170718	CA20122837283	20120815
CN103733060 A	20140416	CN201280040270	20120815

CN103733060 B	20160831	CN201280040270	20120815
EP2746761 A1	20140625	EP20120823776	20120815
EP2746761 A4	20150325	EP20120823776	20120815
EP2746761 B1	20190515	EP20120823776	20120815
JP2013024858 A1	20150305	JP20120537618T	20120815
JP5201495 B1	20130605	JP20120537618T	20120815
JP5201495 B2	20130605	JP20120537618T	20120815
US2014191751 AA	20140710	US20120238958	20120815
US9291599 BB	20160322	US20120238958	20120815
WO13024858 A1	20130221	WO2012JP70723	20120815

Priority:

JP20110178915 20110818 JP20120537618 20120815 WO2012JP70723 20120815

Probable Assignee: NIPPON STEEL CORP

Assignee(s): (std): NAKAO YOSHIYUKI ; NIPPON STEEL AND SUMITO METAL CORP ; NIPPON STEEL AND SUMITOMO METAL ; NIPPON STEEL AND SUMITOMO METAL CORP ; SUZUMA TOSHIYUKI ; SAKAMOTO MAKOTO ; OOTA YOSHIYUKI ; SUMITOMO METAL IND ; OOTA YOSHIUKI

Assignee(s): NIPPON STEEL CORP ; SUMITOMO METAL IND LTD

Inventor(s): (std): SUZUMA TOSHIYUKI ; SAKAMOTO MAKOTO ; NAKAO YOSHIYUKI ; OOTA YOSHIYUKI ; BAN BENCHENG ; OOTA YOSHIUKI ; TOSHIYUKI SUZUMA ; YOSHIYUKI OOTA ; YOSHIYUKI NAKAO ; MAKOTO SAKAMOTO

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; ZIMMERMANN AND PARTNER; ZIMMERMANN AND PARTNER PATENTANWALTE MBB; CLARK AND BRODY; OHNAKA MINORU

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW