Н	Sektion	SECTION H — ELECTRICITY
H02	Klasse	GENERATION, CONVERSION, OR DISTRIBUTION OF ELECTRIC POWER
Н02Ј	Unterklasse	CIRCUIT ARRANGEMENTS OR SYSTEMS FOR SUPPLYING OR DISTRIBUTING ELECTRIC POWER; SYSTEMS FOR STORING ELECTRIC ENERGY (power supply circuits for apparatus for measuring X-radiation, gamma radiation, corpuscular radiation or cosmic radiation G01T 1/175; electric power supply circuits specially adapted for use in electronic time-pieces with no moving parts G04G 19/00; for digital computers G06F 1/18; for discharge tubes H01J 37/248; circuits or apparatus for the conversion of electric power, arrangements for control or regulation of such circuits or apparatus H02M; interrelated control of several motors, control of a prime-mover/generator combination H02P; control of high-frequency power H03L; additional use of power line or power network for transmission of information H04B)
H02J 1/00	Hauptgruppe	Circuit arrangements for dc mains or dc distribution networks
H02J 1/02	1-Punkt Untergruppe	. Arrangements for reducing harmonics or ripples (in converters H02M 1/00)
H02J 1/04	1-Punkt Untergruppe	. Constant-current supply systems
H02J 1/06	1-Punkt Untergruppe	. Two-wire systems
H02J 1/08	1-Punkt Untergruppe	. Three-wire systems; Systems having more than three wires
H02J 1/10	1-Punkt Untergruppe	. Parallel operation of dc sources (involving batteries H02J 7/34)
H02J 1/12	2-Punkt Untergruppe	Parallel operation of dc generators with converters, e.g. with mercury-arc rectifier
H02J 1/14	1-Punkt Untergruppe	. Balancing the load in a network (by batteries H02J 7/34)
H02J 1/16	2-Punkt Untergruppe	using dynamo-electric machines coupled to flywheels
H02J 3/00	Hauptgruppe	Circuit arrangements for ac mains or ac distribution networks
H02J 3/01	1-Punkt Untergruppe	. Arrangements for reducing harmonics or ripples (in converters H02M 1/00) [3]
H02J 3/02	1-Punkt Untergruppe	. using a single network for simultaneous distribution of power at different frequencies; using a single network for simultaneous distribution of ac power and of dc power
H02J 3/04	1-Punkt Untergruppe	. for connecting networks of the same frequency but supplied from different sources
H02J 3/06	2-Punkt Untergruppe	Controlling transfer of power between connected networks; Controlling sharing of load between connected networks
H02J 3/08	2-Punkt Untergruppe	Synchronising of networks
H02J 3/10	1-Punkt Untergruppe	. Constant-current supply systems
H02J 3/12	1-Punkt Untergruppe	. for adjusting voltage in ac networks by changing a characteristic of the network load
H02J 3/14	2-Punkt Untergruppe	by switching loads on to, or off from, network, e.g. progressively balanced loading
H02J 3/16	2-Punkt Untergruppe	by adjustment of reactive power
H02J 3/18	1-Punkt Untergruppe	. Arrangements for adjusting, eliminating, or compensating reactive power in networks (for adjustment of voltage H02J 3/12; use of Petersen coils H02H 9/08)
H02J 3/20	2-Punkt Untergruppe	in long overhead lines
H02J 3/22	2-Punkt Untergruppe	in cables

Symbol	Тур	Titel
H02J 3/24	1-Punkt Untergruppe	. Arrangements for preventing or reducing oscillations of power in networks (by control effected upon a single generator H02P 9/00)
H02J 3/26	1-Punkt Untergruppe	. Arrangements for eliminating or reducing asymmetry in polyphase networks
H02J 3/28	1-Punkt Untergruppe	. Arrangements for balancing the load in a network by storage of energy
H02J 3/30	2-Punkt Untergruppe	using dynamo-electric machines coupled to flywheels
H02J 3/32	2-Punkt Untergruppe	using batteries with converting means
H02J 3/34	1-Punkt Untergruppe	. Arrangements for transfer of electric power between networks of substantially different frequency (frequency converters H02M)
H02J 3/36	1-Punkt Untergruppe	. Arrangements for transfer of electric power between ac networks <u>via</u> a high-tension dc link
H02J 3/38	1-Punkt Untergruppe	. Arrangements for parallelly feeding a single network by two or more generators, converters, or transformers
H02J 3/40	2-Punkt Untergruppe	Synchronising a generator for connection to a network or to another generator
H02J 3/42	3-Punkt Untergruppe	with automatic parallel connection when synchronism is achieved
H02J 3/44	3-Punkt Untergruppe	with means for ensuring correct phase sequence
H02J 3/46	2-Punkt Untergruppe	Controlling the sharing of output between the generators, converters, or transformers
H02J 3/48	3-Punkt Untergruppe	Controlling the sharing of the in-phase component
H02J 3/50	3-Punkt Untergruppe	Controlling the sharing of the out-of-phase component
H02L4/00	Hauptgruppe	Circuit arrangements for mains or distribution networks not specified as ac or dc [2]
H02J 4/00		
H02J 5/00	Hauptgruppe	Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J 3/36 takes precedence)
		Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J
но2J 5/00	Hauptgruppe	Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J 3/36 takes precedence)
H02J 5/00 H02J 7/00	Hauptgruppe Hauptgruppe	Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J 3/36 takes precedence) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries
H02J 5/00 H02J 7/00 H02J 7/02	Hauptgruppe Hauptgruppe 1-Punkt Untergruppe	Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J 3/36 takes precedence) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries . for charging batteries from ac mains by converters
H02J 5/00 H02J 7/00 H02J 7/02 H02J 7/04	Hauptgruppe Hauptgruppe 1-Punkt Untergruppe 2-Punkt Untergruppe	Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J 3/36 takes precedence) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries . for charging batteries from ac mains by converters . Regulation of the charging current or voltage
H02J 5/00 H02J 7/00 H02J 7/02 H02J 7/04 H02J 7/06	Hauptgruppe Hauptgruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 3-Punkt Untergruppe	Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J 3/36 takes precedence) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries . for charging batteries from ac mains by converters . Regulation of the charging current or voltage using discharge tubes or semiconductor devices
H02J 5/00 H02J 7/00 H02J 7/02 H02J 7/04 H02J 7/06 H02J 7/08	Hauptgruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 3-Punkt Untergruppe 4-Punkt Untergruppe	Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J 3/36 takes precedence) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries for charging batteries from ac mains by converters Regulation of the charging current or voltage using discharge tubes or semiconductor devices using discharge tubes only
H02J 5/00 H02J 7/00 H02J 7/02 H02J 7/04 H02J 7/06 H02J 7/08 H02J 7/10	Hauptgruppe Hauptgruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 3-Punkt Untergruppe 4-Punkt Untergruppe 4-Punkt Untergruppe	Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J 3/36 takes precedence) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries for charging batteries from ac mains by converters Regulation of the charging current or voltage using discharge tubes or semiconductor devices using discharge tubes only using semiconductor devices only
H02J 5/00 H02J 7/00 H02J 7/02 H02J 7/04 H02J 7/06 H02J 7/08 H02J 7/10 H02J 7/12	Hauptgruppe Hauptgruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 3-Punkt Untergruppe 4-Punkt Untergruppe 4-Punkt Untergruppe 3-Punkt Untergruppe	Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J 3/36 takes precedence) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries . for charging batteries from ac mains by converters Regulation of the charging current or voltage using discharge tubes or semiconductor devices using discharge tubes only using semiconductor devices only using magnetic devices having controllable degree of saturation, i.e. transductors
H02J 5/00 H02J 7/00 H02J 7/02 H02J 7/04 H02J 7/06 H02J 7/08 H02J 7/10 H02J 7/12 H02J 7/14	Hauptgruppe Hauptgruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 3-Punkt Untergruppe 4-Punkt Untergruppe 4-Punkt Untergruppe 3-Punkt Untergruppe 1-Punkt Untergruppe	Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J 3/36 takes precedence) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries for charging batteries from ac mains by converters Regulation of the charging current or voltage using discharge tubes or semiconductor devices using discharge tubes only using semiconductor devices only semiconductor devices having controllable degree of saturation, i.e. transductors for charging batteries from dynamo-electric generators driven at varying speed, e.g. on vehicle
H02J 5/00 H02J 7/00 H02J 7/02 H02J 7/04 H02J 7/06 H02J 7/08 H02J 7/10 H02J 7/12 H02J 7/14 H02J 7/16	Hauptgruppe Hauptgruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 3-Punkt Untergruppe 4-Punkt Untergruppe 4-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe	Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J 3/36 takes precedence) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries for charging batteries from ac mains by converters Regulation of the charging current or voltage using discharge tubes or semiconductor devices using discharge tubes only using semiconductor devices only semiconductor devices having controllable degree of saturation, i.e. transductors for charging batteries from dynamo-electric generators driven at varying speed, e.g. on vehicle Regulation of the charging current or voltage by variation of field due to variation of ohmic resistance in field circuit, using resistance switching in or out of circuit step by
H02J 5/00 H02J 7/00 H02J 7/02 H02J 7/04 H02J 7/06 H02J 7/08 H02J 7/10 H02J 7/12 H02J 7/14 H02J 7/16 H02J 7/16 H02J 7/18	Hauptgruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 3-Punkt Untergruppe 4-Punkt Untergruppe 4-Punkt Untergruppe 3-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 3-Punkt Untergruppe	Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J 3/36 takes precedence) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries for charging batteries from ac mains by converters Regulation of the charging current or voltage using discharge tubes or semiconductor devices using discharge tubes only using semiconductor devices only semiconductor devices having controllable degree of saturation, i.e. transductors for charging batteries from dynamo-electric generators driven at varying speed, e.g. on vehicle Regulation of the charging current or voltage by variation of field due to variation of ohmic resistance in field circuit, using resistance switching in or out of circuit step by step
H02J 5/00 H02J 7/00 H02J 7/02 H02J 7/04 H02J 7/06 H02J 7/08 H02J 7/10 H02J 7/12 H02J 7/14 H02J 7/16 H02J 7/18 H02J 7/20	Hauptgruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 3-Punkt Untergruppe 4-Punkt Untergruppe 4-Punkt Untergruppe 3-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 3-Punkt Untergruppe 3-Punkt Untergruppe	Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J 3/36 takes precedence) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries for charging batteries from ac mains by converters Regulation of the charging current or voltage using discharge tubes or semiconductor devices using discharge tubes only using semiconductor devices only semiconductor devices having controllable degree of saturation, i.e. transductors for charging batteries from dynamo-electric generators driven at varying speed, e.g. on vehicle Regulation of the charging current or voltage by variation of field due to variation of ohmic resistance in field circuit, using resistance switching in or out of circuit step by step due to variation of continuously-variable ohmic resistor

Symbol	Тур	Titel
H02J 7/28	3-Punkt Untergruppe	using magnetic devices with controllable degree of saturation in combination with controlled discharge tube or controlled semiconductor device
H02J 7/30	3-Punkt Untergruppe	using armature-reaction-excited machines
H02J 7/32	1-Punkt Untergruppe	. for charging batteries from a charging set comprising a non-electric prime mover
H02J 7/34	1-Punkt Untergruppe	. Parallel operation in networks using both storage and other dc sources, e.g. providing buffering (H02J 7/14 takes precedence) [4]
H02J 7/35	2-Punkt Untergruppe	with light sensitive cells [4]
H02J 7/36	1-Punkt Untergruppe	. Arrangements using end-cell switching
Н02Ј 9/00	Hauptgruppe	Circuit arrangements for emergency or stand-by power supply, e.g. for emergency lighting (with provision for charging standby battery H02J 7/00)
H02J 9/02	1-Punkt Untergruppe	. in which an auxiliary distribution system and its associated lamps are brought into service
H02J 9/04	1-Punkt Untergruppe	. in which the distribution system is disconnected from the normal source and connected to a standby source
H02J 9/06	2-Punkt Untergruppe	with automatic change-over
H02J 9/08	3-Punkt Untergruppe	requiring starting of a prime-mover
H02J 11/00	Hauptgruppe	Circuit arrangements for providing service supply to auxiliaries of stations in which electric power is generated, distributed, or converted (emergency or standby arrangements H02J 9/00)
H02J 13/00	Hauptgruppe	Circuit arrangements for providing remote indication of network conditions, e.g. an instantaneous record of the open or closed condition of each circuitbreaker in the network; Circuit arrangements for providing remote control of switching means in a power distribution network, e.g. switching in and out of current consumers by using a pulse code signal carried by the network
H02J 15/00	Hauptgruppe	Systems for storing electric energy (mechanical systems therefor F01-F04; in chemical form $H01M$) [2]
H02J 17/00	Hauptgruppe	Systems for supplying or distributing electric power by electromagnetic waves [3]