

Symbol	Typ	Titel
F	Sektion	SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
F01	Untersektion	ENGINES OR PUMPS
F01	Klasse	MACHINES OR ENGINES IN GENERAL (combustion engines F02; machines for liquids F03, F04); ENGINE PLANTS IN GENERAL; STEAM ENGINES
F01K	Unterklasse	STEAM ENGINE PLANTS; STEAM ACCUMULATORS; ENGINE PLANTS NOT OTHERWISE PROVIDED FOR; ENGINES USING SPECIAL WORKING FLUIDS OR CYCLES (gas-turbine or jet-propulsion plants F02; steam generation F22; nuclear power plants, engine arrangements therein G21D)
F01K 1/00	Hauptgruppe	Steam accumulators (use of accumulators in steam engine plants F01K 3/00)
F01K 1/02	1-Punkt Untergruppe	. for storing steam otherwise than in a liquid
F01K 1/04	1-Punkt Untergruppe	. for storing steam in a liquid, e.g. Ruth type (in alkali to increase steam pressure F22B 1/20)
F01K 1/06	2-Punkt Untergruppe	. . Internal fittings facilitating steam distribution, steam formation, or circulation (acting during charging or discharging F01K 1/08; fittings facilitating circulation through multiple accumulators F01K 1/14)
F01K 1/08	1-Punkt Untergruppe	. Charging or discharging of accumulators with steam (peculiar to multiple accumulators F01K 1/12)
F01K 1/10	1-Punkt Untergruppe	. specially adapted for superheated steam
F01K 1/12	1-Punkt Untergruppe	. Multiple accumulators; Charging, discharging, or regulating peculiar thereto
F01K 1/14	2-Punkt Untergruppe	. . Circulation
F01K 1/16	1-Punkt Untergruppe	. Other safety or regulating means
F01K 1/18	2-Punkt Untergruppe	. . for steam pressure
F01K 1/20	1-Punkt Untergruppe	. Other steam-accumulator parts, details, or accessories
		<u>Steam engine plants</u>
F01K 3/00	Hauptgruppe	Plants characterised by the use of steam or heat accumulators, or intermediate steam heaters, therein (regenerating exhaust steam F01K 19/00)
F01K 3/02	1-Punkt Untergruppe	. Use of accumulators and specific engine types; Regulating thereof
F01K 3/04	2-Punkt Untergruppe	. . the engine being of multiple-inlet-pressure type
F01K 3/06	2-Punkt Untergruppe	. . the engine being of extraction or non-condensing type
F01K 3/08	1-Punkt Untergruppe	. Use of accumulators, the plant being specially adapted for a specific use
F01K 3/10	2-Punkt Untergruppe	. . for vehicle drive, e.g. for accumulator locomotives
F01K 3/12	1-Punkt Untergruppe	. having two or more accumulators
F01K 3/14	1-Punkt Untergruppe	. having both steam accumulator and heater, e.g. superheating accumulator (steam superheaters <u>per se</u> F22G)
F01K 3/16	2-Punkt Untergruppe	. . Mutual arrangement of accumulator and heater
F01K 3/18	1-Punkt Untergruppe	. having heaters (having both steam accumulator and heater F01K 3/14; steam heaters <u>per se</u> F22)
F01K 3/20	2-Punkt Untergruppe	. . with heating by combustion gases of main boiler
F01K 3/22	3-Punkt Untergruppe	. . . Controlling, e.g. starting, stopping

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F01K 3/24	2-Punkt Untergruppe	. . with heating by separately-fired heaters
F01K 3/26	2-Punkt Untergruppe	. . with heating by steam
F01K 5/00	Hauptgruppe	Plants characterised by use of means for storing steam in an alkali to increase steam pressure, e.g. of Honigmann or Koenemann type
F01K 5/02	1-Punkt Untergruppe	. used in regenerative installation
F01K 7/00	Hauptgruppe	Plants characterised by the use of specific types of engine (F01K 3/02 takes precedence); Plants or engines characterised by their use of special steam systems, cycles, or processes (reciprocating-piston engines using uniflow principle F01B 17/04); Regulating means peculiar to such systems, cycles, or processes; Use of withdrawn or exhaust steam for feed-water heating
F01K 7/02	1-Punkt Untergruppe	. the engines being of multiple-expansion type (the engines being only of turbine type F01K 7/16; the engines using steam of critical or over-critical pressure F01K 7/32; the engines being of extraction or non-condensing type F01K 7/34)
F01K 7/04	2-Punkt Untergruppe	. . Regulating means peculiar thereto
F01K 7/06	1-Punkt Untergruppe	. the engines being of multiple-inlet-pressure type (F01K 7/02 takes precedence; the engines being only of turbine type F01K 7/16; the engines using steam of critical or over-critical pressure F01K 7/32; the engines being of extraction or non-condensing type F01K 7/34)
F01K 7/08	2-Punkt Untergruppe	. . Regulating means peculiar thereto
F01K 7/10	1-Punkt Untergruppe	. characterised by the engine exhaust pressure (the engines being only of turbine type F01K 7/16; the engines using steam of critical or over-critical pressure F01K 7/32; the engines being of extraction or non-condensing type F01K 7/34)
F01K 7/12	2-Punkt Untergruppe	. . of condensing type
F01K 7/14	3-Punkt Untergruppe	. . . Regulating means peculiar thereto
F01K 7/16	1-Punkt Untergruppe	. the engines being only of turbine type (the engines using steam of critical or over-critical pressure F01K 7/32; the engines being of extraction or non-condensing type F01K 7/34)
F01K 7/18	2-Punkt Untergruppe	. . the turbine being of multiple-inlet-pressure type
F01K 7/20	3-Punkt Untergruppe	. . . Regulating means peculiar thereto
F01K 7/22	2-Punkt Untergruppe	. . the turbines having inter-stage steam heating
F01K 7/24	3-Punkt Untergruppe	. . . Regulating or safety means peculiar thereto
F01K 7/26	2-Punkt Untergruppe	. . the turbines having inter-stage steam accumulation
F01K 7/28	3-Punkt Untergruppe	. . . Regulating means peculiar thereto
F01K 7/30	2-Punkt Untergruppe	. . the turbines using exhaust steam only
F01K 7/32	1-Punkt Untergruppe	. the engines using steam of critical or over-critical pressure
F01K 7/34	1-Punkt Untergruppe	. the engines being of extraction or non-condensing type; Use of steam for feed-water heating (feed-water heaters in general F22D)
F01K 7/36	2-Punkt Untergruppe	. . the engines being of positive-displacement type
F01K 7/38	2-Punkt Untergruppe	. . the engines being of turbine type
F01K 7/40	2-Punkt Untergruppe	. . Use of two or more feed-water heaters in series
F01K 7/42	2-Punkt Untergruppe	. . Use of desuperheaters for feed-water heating
F01K 7/44	2-Punkt Untergruppe	. . Use of steam for feed-water heating and another purpose

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F01K 9/00	Hauptgruppe	Plants characterised by condensers arranged or modified to co-operate with the engines (by condensers structurally combined with engines F01K 11/00; steam condensers <u>per se</u> F28B)
F01K 9/02	1-Punkt Untergruppe	. Arrangements or modifications of condensate or air pumps
F01K 9/04	1-Punkt Untergruppe	. with dump valves to by-pass stages
F01K 11/00	Hauptgruppe	Plants characterised by the engines being structurally combined with boilers or condensers
F01K 11/02	1-Punkt Untergruppe	. the engines being turbines
F01K 11/04	1-Punkt Untergruppe	. the boilers or condensers being rotated in use
F01K 13/00	Hauptgruppe	General layout or general methods of operation, of complete plants
F01K 13/02	1-Punkt Untergruppe	. Regulating, e.g. stopping or starting
F01K 15/00	Hauptgruppe	Adaptations of plants for special use
F01K 15/02	1-Punkt Untergruppe	. for driving vehicles, e.g. locomotives (arrangements in vehicles, <u>see</u> the relevant vehicle classes)
F01K 15/04	2-Punkt Untergruppe	. . the vehicles being waterborne vessels
F01K 17/00	Hauptgruppe	Use of steam or condensate extracted or exhausted from steam engine plant (for heating feed-water F01K 7/34; returning condensate to boiler F22D)
F01K 17/02	1-Punkt Untergruppe	. for heating purposes, e.g. industrial, domestic (F01K 17/06 takes precedence; domestic- or space-heating systems, e.g. central-heating systems, in general F24D 1/00, F24D 3/00, F24D 9/00) [3]
F01K 17/04	1-Punkt Untergruppe	. for specific purposes other than heating (F01K 17/06 takes precedence)
F01K 17/06	1-Punkt Untergruppe	. Returning energy of steam, in exchanged form, to process, e.g. use of exhaust steam for drying solid fuel of plant
F01K 19/00	Hauptgruppe	Regenerating or otherwise treating steam exhaust from steam engine plant (plants characterised by use of means for storing steam in an alkali to increase steam pressure F01K 5/00; returning condensate to boiler F22D)
F01K 19/02	1-Punkt Untergruppe	. Regenerating by compression
F01K 19/04	2-Punkt Untergruppe	. . in combination with cooling or heating
F01K 19/06	2-Punkt Untergruppe	. . in engine cylinder
F01K 19/08	2-Punkt Untergruppe	. . compression done by injection apparatus, jet blower, or the like
F01K 19/10	1-Punkt Untergruppe	. Cooling exhaust steam other than by condenser; Rendering exhaust steam invisible
F01K 21/00	Hauptgruppe	Steam engine plants not otherwise provided for
F01K 21/02	1-Punkt Untergruppe	. with steam generation in engine cylinders
F01K 21/04	1-Punkt Untergruppe	. using mixtures of steam and gas; Plants generating or heating steam by bringing water or steam into direct contact with hot gas (direct-contact steam generators in general F22B)
F01K 21/06	1-Punkt Untergruppe	. Treating live steam, other than thermodynamically, e.g. for fighting deposits in engine
F01K 23/00	Hauptgruppe	Plants characterised by more than one engine delivering power external to the plant, the engines being driven by different fluids
F01K 23/02	1-Punkt Untergruppe	. the engine cycles being thermally coupled
F01K 23/04	2-Punkt Untergruppe	. . condensation heat from one cycle heating the fluid in another cycle
F01K 23/06	2-Punkt Untergruppe	. . combustion heat from one cycle heating the fluid in another cycle
F01K 23/08	3-Punkt Untergruppe	. . . with working fluid of one cycle heating the fluid in another cycle

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F01K 23/10	3-Punkt Untergruppe	. . . with exhaust fluid of one cycle heating the fluid in another cycle
F01K 23/12	1-Punkt Untergruppe	. the engines being mechanically coupled (F01K 23/02 takes precedence)
F01K 23/14	2-Punkt Untergruppe	. . including at least one combustion engine
F01K 23/16	2-Punkt Untergruppe	. . all the engines being turbines (F01K 23/14 takes precedence)
F01K 23/18	1-Punkt Untergruppe	. characterised by adaptation for specific use
F01K 25/00	Hauptgruppe	Plants or engines characterised by use of special working fluids, not otherwise provided for; Plants operating in closed cycles and not otherwise provided for
F01K 25/02	1-Punkt Untergruppe	. the fluid remaining in the liquid phase
F01K 25/04	1-Punkt Untergruppe	. the fluid being in different phases, e.g. foamed
F01K 25/06	1-Punkt Untergruppe	. using mixtures of different fluids (plants using mixtures of steam and gas F01K 21/04)
F01K 25/08	1-Punkt Untergruppe	. using special vapours
F01K 25/10	2-Punkt Untergruppe	. . the vapours being cold, e.g. ammonia, carbon dioxide, ether
F01K 25/12	2-Punkt Untergruppe	. . the vapours being metallic, e.g. mercury
F01K 25/14	2-Punkt Untergruppe	. . using industrial or other waste gases
F01K 27/00	Hauptgruppe	Plants for converting heat or fluid energy into mechanical energy, not otherwise provided for
F01K 27/02	1-Punkt Untergruppe	. Plants modified to use their waste heat, other than that of exhaust, e.g. engine-friction heat