

SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING

F02 COMBUSTION ENGINES; HOT-GAS OR COMBUSTION-PRODUCT ENGINE PLANTS

F02F CYLINDERS, PISTONS, OR CASINGS FOR COMBUSTION ENGINES; ARRANGEMENTS OF SEALINGS IN COMBUSTION ENGINES (specially adapted for rotary-piston or oscillating-piston internal-combustion engines F02B; specially adapted for gas-turbine plants F02C; specially adapted for jet-propulsion plants F02K) [2]

Note(s)

1. Attention is drawn to the Notes preceding class F01.
2. Class F16 takes precedence over this subclass, except for subject matter specific to combustion engines.

1/00	Cylinders; Cylinder heads (in general F16J)	1/42	• • Shape or arrangement of intake or exhaust channels in cylinder heads
1/02	• having cooling means (cylinder heads F02F 1/26)		
1/04	• • for air cooling		
1/06	• • • Shape or arrangement of cooling fins; Finned cylinders	3/00	Pistons (in general F16J)
1/08	• • • running-liner and cooling-part of cylinder being different parts or of different material	3/02	• having means for accommodating or controlling heat expansion
1/10	• • for liquid cooling	3/04	• • having expansion-controlling inserts
1/12	• • • Preventing corrosion of liquid-swept surfaces	3/06	• • • the inserts having bimetallic effect
1/14	• • • Cylinders with means for directing, guiding, or distributing liquid stream	3/08	• • • the inserts being ring-shaped
1/16	• • • Cylinder liners of wet type	3/10	• having surface coverings (F02F 3/02 takes precedence)
1/18	• Other cylinders	3/12	• • on piston heads
1/20	• • characterised by constructional features providing for lubrication	3/14	• • • within combustion chambers
1/22	• • characterised by having ports in cylinder wall for scavenging or charging	3/16	• having cooling means
1/24	• Cylinder heads	3/18	• • the means being a liquid or solid coolant, e.g. sodium, in a closed chamber in piston
1/26	• • having cooling means	3/20	• • the means being a fluid flowing through or along piston
1/28	• • • for air cooling	3/22	• • • the fluid being liquid
1/30	• • • • Finned cylinder heads	3/24	• having means for guiding gases in cylinders, e.g. for guiding scavenging charge in two-stroke engines
1/32	• • • • the cylinder heads being of overhead-valve type	3/26	• having combustion chamber in piston head (the surface thereof being covered F02F 3/14)
1/34	• • • • with means for directing or distributing cooling medium (F02F 1/32 takes precedence)	3/28	• Other pistons with specially-shaped head
1/36	• • • for liquid cooling	5/00	Piston rings, e.g. associated with piston crown
1/38	• • • • the cylinder heads being of overhead-valve type	7/00	Casings, e.g. crankcases (engine casings in general F16M)
1/40	• • • • cylinder heads with means for directing, guiding, or distributing liquid stream (F02F 1/38 takes precedence)	11/00	Arrangements of sealings in combustion engines (piston rings F02F 5/00; sealings <u>per se</u> F16J)