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

F03 MACHINES OR ENGINES FOR LIQUIDS; WIND, SPRING, OR WEIGHT MOTORS; PRODUCING MECHANICAL POWER OR A REACTIVE PROPULSIVE THRUST, NOT OTHERWISE PROVIDED FOR

F03C POSITIVE-DISPLACEMENT ENGINES DRIVEN BY LIQUIDS (positive-displacement engines for liquids and elastic fluids F01; positive-displacement machines for liquids F04; fluid-pressure actuators F15B; fluid gearing F16H)

Note(s)

Attention is drawn to the Notes preceding class F01, especially as regards the definitions of "positive displacement", "rotary-piston machines", "oscillating-piston machines", "rotary-piston", "co-operating members", "movement of co-operating members", "teeth or tooth-equivalents", and "internal axis".

1/00	**Reciprocating-piston liquid engines**
1/007	• with single cylinder, double-acting piston **[5]**
1/013	• with single cylinder, single-acting piston **[5]**
1/02	• with multiple cylinders, characterised by the number or arrangement of cylinders (with movable cylinders F03C 1/22; of flexible-wall type F03C 7/00)
1/03	• • with movement in two directions being obtained by two single-acting piston liquid engines, each acting in one direction **[5]**
1/04	• • with cylinders in star- or fan-arrangement
1/047	• • • the pistons co-operating with an actuated element at the outer ends of the cylinders **[5]**
1/053	• • • the pistons co-operating with an actuated element at the inner ends of the cylinders **[5]**
1/06	• • with cylinder axes generally coaxial with, or parallel or inclined to, main shaft axis
1/08	• Distributing valve-gear peculiar thereto (for multiple-cylinder engines F03C 1/34; for engines with positive displacement in general F01L)
1/10	• • actuated by piston or piston-rod
1/12	• • • mechanically **[5]**
1/14	• • actuated by the driving liquid of the engine **[5]**
1/16	• • Speed controlling, equalising, or cushioning **[5]**
1/20	• • specially adapted for engines generating vibration only
1/22	• with movable cylinders
1/24	• • in which the liquid exclusively displaces one or more pistons reciprocating in rotary cylinders
1/247	• • • with cylinders in star- or fan-arrangement **[5]**
1/253	• • • with cylinder axes generally coaxial with, or parallel to, main shaft axis **[5]**
1/26	• adapted for special use or combined with apparatus driven thereby (aspects predominantly concerning the driven apparatus, <u>see</u> the relevant classes for such apparatus)
1/28	• Pistons specially adapted therefor **[5]**
1/30	• Cams specially adapted therefor **[5]**
1/32	• Cylinders specially adapted therefor **[5]**

1/34	• Distribution members specially adapted for multiple-cylinder engines **[5]**
1/36	• • Cylindrical distribution members **[5]**
1/38	• • Plate-like distribution members **[5]**
1/40	• Control specially adapted therefor **[5]**
2/00	**Rotary-piston engines** (in which the liquid exclusively displaces one or more piston reciprocating in rotary cylinders F03C 1/24) **[3]**

Note(s)

Group F03C 2/30 takes precedence over groups F03C 2/02-F03C 2/24.

2/02	• of arcuate-engagement type, i.e. with circular translatory movement of co-operating members, each member having the same number of teeth or tooth-equivalents **[3]**
2/08	• of intermeshing-engagement type, i.e. with engagement of co-operating members similar to that of toothed gearing **[3]**
2/22	• of internal-axis type with equidirectional movement of co-operating members at the points of engagement, or with one of the co-operating members being stationary, the inner member having more teeth or tooth-equivalents than the outer member **[3]**
2/24	• of counter-engagement type, i.e. the movement of co-operating members at the points of engagement being in opposite directions **[3]**
2/30	• having the characteristics covered by two or more of groups F03C 2/02, F03C 2/08, F03C 2/22, F03C 2/24 or having the characteristics covered by one of these groups together with some other type of movement between co-operating members **[3]**
4/00	**Oscillating-piston engines [3]**
7/00	**Engines of flexible-wall type [2010.01]**
99/00	**Subject matter not provided for in other groups of this subclass [2010.01]**