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

F01 MACHINES OR ENGINES IN GENERAL; ENGINE PLANTS IN GENERAL; STEAM ENGINES

F01M LUBRICATING OF MACHINES OR ENGINES IN GENERAL; LUBRICATING INTERNAL-COMBUSTION ENGINES; CRANKCASE VENTILATING [2]

Note(s) [2006.01]

1. Attention is drawn to the Notes preceding class F01, especially as regards Note (3).
2. Attention is drawn to the following places, which cover lubrication of specific machines or engines:
   F01B 31/10.....Steam engines
   F01C 21/04.....Rotary-piston or oscillating-piston machines or engines
   F01D 25/18.....Non-positive-displacement machines
   F02C 7/06.....Gas-turbine plants
   F02F 1/20.....Cylinders of combustion engines
   F04B 39/02.....Pumps for elastic fluids
   F04C 29/02.....Rotary-piston or oscillating-piston pumps for liquids
   F04D 29/04.....Non-positive-displacement pumps

Subclass index

PRESSURE LUBRICATION.....1/00
SPECIAL LUBRICATION.....3/00, 7/00, 9/00
LUBRICANT CONDITIONING.....5/00
DETAILS, ACCESSORIES.....11/00
CRANKCASE VENTILATION.....13/00

1/00 Pressure lubrication [1, 2006.01]

1/02 • using lubricating pumps **[1, 2006.01]**

1/04 • using pressure in working cylinder or crankcase to operate lubricant-feeding devices **[1, 2006.01]**

1/06 • Lubricating systems characterised by the provision therein of crankshafts or connecting-rods with lubricant passageways, e.g. bores **[1, 2006.01]**

1/08 • Lubricating systems characterised by the provision therein of lubricant-jetting means **[1, 2006.01]**

1/10 • Lubricating systems characterised by the provision therein of lubricant venting or purifying means, e.g. of filters (mounting of, connecting of, or constructional details of lubricant purifying means F01M 11/03) **[1, 2006.01]**

1/12 • Closed-circuit lubricating systems not provided for in groups F01M 1/02-F01M 1/10 **[1, 2006.01]**

1/14 • Timed lubrication (F01M 1/08 takes precedence) **[1, 2006.01]**

1/16 • Controlling lubricant pressure or quantity **[1, 2006.01]**

1/18 • Indicating or safety devices (concerning lubricant level F01M 11/06, F01M 11/12) **[1, 2006.01]**

1/20 • • concerning lubricant pressure **[1, 2006.01]**

1/22 • • • rendering machines or engines inoperative or idling on pressure failure **[1, 2006.01]**

1/24 • • • • acting on engine fuel system **[1, 2006.01]**

1/26 • • • • acting on engine ignition system **[1, 2006.01]**

1/28 • • • • acting on engine combustion-air supply **[1, 2006.01]**

3/00 Lubrication specially adapted for engines with crankcase compression of fuel-air mixture, or for other engines in which lubricant is contained in fuel, combustion air, or fuel-air mixture (separating lubricant from air or fuel-air mixture before entry into cylinder F01M 11/08) **[1, 2006.01]**

3/02 • with variable proportion of lubricant to fuel, lubricant to air, or lubricant to fuel-air mixture **[1, 2006.01]**

3/04 • for upper cylinder lubrication only **[1, 2006.01]**

5/00 Heating, cooling, or controlling temperature of lubricant (arrangement of lubricant coolers in engine cooling system F01P 11/08)**; Lubrication means facilitating engine starting [1, 2006.01]**

5/02 • Conditioning lubricant for aiding engine starting, e.g. heating **[1, 2006.01]**

5/04 • • Diluting, e.g. with fuel **[1, 2006.01]**

7/00 Lubrication means specially adapted for machine or engine running-in [1, 2006.01]

9/00 Lubrication means having pertinent characteristics not provided for in, or of interest apart from, groups F01M 1/00-F01M 7/00 [1, 2006.01]

9/02 • having means for introducing additives to lubricant **[1, 2006.01]**

9/04 • Use of fuel as lubricant **[1, 2006.01]**

9/06 • Dip or splash lubrication **[1, 2006.01]**
9/08 • Drip lubrication **[1, 2006.01]**
9/10 • Lubrication of valve gear or auxiliaries **[1, 2006.01]**
9/12 • Non-pressurised lubrication, or non-closed-circuit lubrication, not otherwise provided for **[1, 2006.01]**

11/00 Component parts, details, or accessories, not provided for in, or of interest apart from, groups F01M 1/00-F01M 9/00 [1, 2006.01]
11/02 • Arrangements of lubricant conduits **[1, 2006.01]**
11/03 • Mounting or connecting of lubricant purifying means relative to the machine or engine; Details of lubricant purifying means **[3, 2006.01]**
11/04 • Filling or draining lubricant of or from machines or engines **[1, 2006.01]**
11/06 • Means for keeping lubricant level constant or for accommodating movement or position of machines or engines **[1, 2006.01]**
11/08 • Separating lubricant from air or fuel-air mixture before entry into cylinder **[1, 2006.01]**
11/10 • Indicating devices; Other safety devices **[1, 2006.01]**
11/12 • • concerning lubricant level **[1, 2006.01]**

13/00 Crankcase ventilating or breathing [2, 2006.01]
13/02 • by means of additional source of positive or negative pressure **[2, 2006.01]**
13/04 • having means for purifying air before leaving crankcase, e.g. removing oil **[2, 2006.01]**
13/06 • specially adapted for submersible engines, e.g. of armoured vehicles **[2, 2006.01]**