

Title (en)

A FUEL INJECTOR FOR A LARGE TWO-STROKE INTERNAL COMBUSTION ENGINE

Title (de)

KRAFTSTOFFEINSPRITZVENTIL FÜR EINE GROSSE ZWEITAKTBRENNKRAFTMASCHINE

Title (fr)

INJECTEUR DE CARBURANT POUR MOTEUR A EXPLOSION A DEUX TEMPS DE GRANDES DIMENSIONS

Publication

EP 0744007 B1 19971022 (EN)

Application

EP 95909652 A 19950206

Priority

- DK 9500053 W 19950206
- DK 15694 A 19940207

Abstract (en)

[origin: WO9521324A1] A fuel injector (1) for a large two-stroke internal combustion engine has an elongated outer housing (2) for mounting in a water-cooled cylinder cover (51). A primary valve seat (18) for opening and closing the fuel injector is positioned in an upper, cooled valve section (1a), while a secondary closing member (32) for the fuel flow to the nozzle holes (24) is positioned in the nozzle (4) in an uncooled valve section (1b). The nozzle bore comprises an upper bore section (22) with a larger diameter than a lower bore section (29) with the nozzle holes. The secondary closing member is positioned at an area (23) with tapering diameter, when the valve slide (15) is in its closed position. On one side the closing member cuts off the majority of the fuel volume in the nozzle bore from the nozzle holes when the valve is closed, and on the other side, the valve slide ends at a distance from the nozzle holes so that the lower section (30) of the slide does not disturb the atomization when the injector is open.

IPC 1-7

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IPC 8 full level

F02M 53/04 (2006.01); **F02M 61/04** (2006.01); **F02M 61/10** (2006.01); **F02M 61/12** (2006.01); **F02M 61/16** (2006.01); **F02M 61/18** (2006.01); **F02M 61/20** (2006.01)

CPC (source: EP KR)

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WO 9521324 A1 19950810; CN 1057366 C 20001011; CN 1140483 A 19970115; DE 69500921 D1 19971127; DE 69500921 T2 19980312; DK 15694 A 19950808; DK 171975 B1 19970901; EP 0744007 A1 19961127; EP 0744007 B1 19971022; ES 2109094 T3 19980101; HR P950053 A2 19970228; HR P950053 B1 19981231; JP 3081646 B2 20000828; JP H09508456 A 19970826; KR 100335666 B1 20021123; KR 960706605 A 19961209; PL 175740 B1 19990226; PL 315808 A1 19961209

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