

Title (en)  
DEVICE FOR INSTANTANEOUS AD HOC ANALYSIS OF AN INJECTION FLOW PROVIDED BY AN INJECTION SYSTEM USED IN A HEAT ENGINE

Title (de)  
VORRICHTUNG ZUR SOFORTIGEN ANALYSE DER EINSPRITZMENGE PRO EINSPRITZVORGANG FÜR EINE EINSPRITZANLAGE VON BRENNKRAFTMASCHINEN

Title (fr)  
DISPOSITIF PERMETTANT D'ANALYSER INSTANTANEMENT LE DEBIT D'INJECTION COUP PAR COUP FOURNI PAR UN SYSTEME D'INJECTION UTILISE DANS UN MOTEUR THERMIQUE

Publication  
**EP 1187987 A1 20020320 (FR)**

Application  
**EP 00949547 A 20000615**

Priority  
• FR 0001660 W 20000615  
• FR 9907982 A 19990618

Abstract (en)  
[origin: US6755076B1] The measuring device includes a first measuring chamber (8) into which fuel is injected, pressure sensor (62) and a temperature sensor (60) respectively measuring pressure and temperature in the first measuring chamber (8), devices enabling the measuring chamber to be at least partially drained, an electronic section controlling the system and analyzing information received from the sensors (46, 60, 62). The device also includes a second measuring chamber (20) arranged downstream from the first measuring chamber (8). Fuel which is drained from the first measuring chamber (8) is sent to said second chamber. The volume of the second measuring chamber (20) can vary according to the displacement of a piston (38). The displacement is measured with the aid of a displacement sensor (46).

IPC 1-7  
**F02M 65/00**

IPC 8 full level  
**F02M 65/00** (2006.01)

CPC (source: EP US)  
**F02M 65/001** (2013.01 - EP US)

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**US 6755076 B1 20040629**; AT E291694 T1 20050415; DE 60018928 D1 20050428; DE 60018928 T2 20060427; EP 1187987 A1 20020320; EP 1187987 B1 20050323; ES 2237440 T3 20050801; FR 2795139 A1 20001222; FR 2795139 B1 20010720; JP 2003502578 A 20030121; WO 0079125 A1 20001228

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**US 98039302 A 20020227**; AT 00949547 T 20000615; DE 60018928 T 20000615; EP 00949547 A 20000615; ES 00949547 T 20000615; FR 0001660 W 20000615; FR 9907982 A 19990618; JP 2001505451 A 20000615