

Title (en)
Pump with integral flow sensor

Title (de)
Pumpe mit integriertem Flussensor

Title (fr)
Pompe avec capteur de débit intégré

Publication
EP 1342921 A1 20030910 (EN)

Application
EP 02004980 A 20020305

Priority
EP 02004980 A 20020305

Abstract (en)
An apparatus for pumping and for measuring the flow rate of a fluid, in particular but not exclusively fuels, lubricants, oils, comprises a pump (10) with a pump body (14), which contains an impeller (17), a motor (15) that operates the impeller (17), a sensor (13) for measuring the fluid flow rate, a control box (1) containing a control unit associated to a display (2). In operation, the fluid enters body (14) of pump (10), through inlet (11) and is conveyed by the impeller (17) towards the outlet (12), where the fluid crosses a sensor (13), located in a housing made near outlet (12). This sensor (13) produces a signal, analogic or digital, proportional to the amount of fluid pumped, that is sent to a computer (1) located above motor (15). <IMAGE>

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F04D 15/02

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F04D 15/02 (2006.01)

CPC (source: EP)
F04D 15/0209 (2013.01)

Citation (search report)

- [XY] EP 1074745 A1 20010207 - ENG & MARK S R L [IT]
- [A] US 4700579 A 19871020 - HALL ROBERT E [US]
- [XY] PATENT ABSTRACTS OF JAPAN vol. 008, no. 117 (P - 277) 31 May 1984 (1984-05-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 06 22 September 2000 (2000-09-22)

Cited by
EP1959144A3; KR100957542B1; CN103883535A; WO2006015693A1; DE102014118571B4

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