

Title (en)

Pump unit with a magnetically driven piston

Title (de)

Pumpeneinheit mit einem magnetisch angetriebenen Kolben

Title (fr)

Unité de pompe avec un piston propulsé magnétiquement

Publication

EP 1857677 B1 20110720 (EN)

Application

EP 06010451 A 20060520

Priority

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Abstract (en)

[origin: EP1857677A1] A pump unit for magnetically driving an article (12), including a main body (11), an article (12) and a coil (13). The main body (11) has an internal chamber. The article has a certain length and a configuration corresponding to a shape of the chamber. The article (12) is reciprocally movably positioned in the chamber. The coil (13) is wound around the main body (11) and connected with a circuit. The circuit provides a current for the coil (13) so as to drive the article (12) to reciprocally move. The chamber of the main body (11) communicates with two open ends of the main body (11). The pump unit further includes a first pair of one-way valve sections (16) and a second pair of one-way valve sections (16). The first and second pairs of one-way valve sections (16) are respectively disposed at two ends of the main body (11). When the article (12) is reciprocally moved, a fluid can be only driven by the article (12) to flow from a first position to a second position.

IPC 8 full level

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