

Title (en)  
PERMANENT MAGNET LINEAR PISTON PUMP

Title (de)  
LINEARE KOLBENPUMPE MIT EINEM DAUERMAGNETEN

Title (fr)  
POMPE À PISTON À MOUVEMENT LINÉAIRE ET À AIMANTS PERMANENTS

Publication  
**EP 2878818 A1 20150603 (EN)**

Application  
**EP 12881862 A 20121015**

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Abstract (en)  
A permanent magnet linear piston pump comprises a piston body (1), a cylinder body (2), a permanent magnet assembly (6) and an electromagnetic coil (3). The piston body is arranged in a piston cavity (201) by a liquid sealing movable fit mode. An inner magnetic body (603) and an outer magnetic body (604) are disposed on at least one side surface of the cylinder body (2). An electromagnetic coil (3) is axially and distributively wound around a coil supporting member which is disposed at an outside surface of the cylinder body (2). The electromagnetic coil (3) is disposed between the inner magnetic body (603) and the outer magnetic body (604) . By the above structure, the pump needs not subject the electromagnetic coil (3) to a sealing treatment, thereby attaining a simple structure, more convenient manufacture, lower costs, a reliable operation and convenient maintenance.

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