

Title (en)  
Electromagnetically operated pump

Title (de)  
Elektromagnetische Pumpe

Title (fr)  
Pompe électromagnetique

Publication  
**EP 1236895 A1 20020904 (EN)**

Application  
**EP 02004697 A 20020228**

Priority  
IT MI20010420 A 20010301

Abstract (en)  
An electromagnetically operated pump, to feed two-stroke internal-combustion engines with precise and controlled amounts of oil, comprises in a casing (1): a cylinder (2); a piston element (3) with a through pipe (4), axially movable in said cylinder (2); an electromagnetic coil (10) external to the cylinder (2), to control the movements of the piston element (3) against the action of spring means (11); a pumping and metering chamber (7) for the oil to be fed, at one end (9) of the cylinder (2); and valve means (12, 13) housed in said casing (1) close to said end (9), one of said means (12) cooperating with said piston element (3). According to the invention, in said pump the stroke of the piston element (3) is limited, on one side, by the plane surface (8) of the casing (1) onto which abuts the cylinder (2) in correspondence of said chamber (7) and, on the other side, by the inner surface (15) of a cup (16) bearing, with a projecting peripheral edge (17) thereof, onto the end of the cylinder (2) opposite to that of the chamber (7), stout spring means (18) being interposed between said cup (16) and the casing (1) to stop the cylinder (2) therein.

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IPC 8 full level  
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Citation (search report)  
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**EP 1236895 A1 20020904**; **EP 1236895 B1 20060628**; DE 60212743 D1 20060810; DE 60212743 T2 20070628; ES 2266326 T3 20070301; IT MI20010420 A1 20020901

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