

Title (en)
PUMP ASSEMBLY FOR SUPPLYING FUEL

Title (de)
PUMPENANORDNUNG ZUR FÖRDERUNG VON KRAFTSTOFF

Title (fr)
SYSTEME DE POMPE POUR L'ALIMENTATION EN CARBURANT

Publication
EP 1190174 B1 20041006 (DE)

Application
EP 00940210 A 20000524

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• DE 19926308 A 19990609

Abstract (en)
[origin: DE19926308A1] The invention relates to a pump assembly (1) for fuel, comprising a principal feed pump (2) and a pre-feed pump (3), connected upstream thereof which conveys a stream of fuel from a tank (5), using a fuel line (4). The entire conveyed fuel stream is fed through a drive/crank chamber (2a) of the principal feed pump (2). A return flow line (9) for conveying the lubrication stream to the tank (5) is provided in the direction of flow (7) of the entire fuel stream after the drive/crank chamber (2a). A supply flow line (13) for conveying the supply stream to a metering unit (14) and then on to the principal feed pump (2) is also provided after the drive/crank chamber (2a). In order to configure the pump assembly (1) to function in a simple, reliable manner, with a robust construction and high durability, the invention is characterised in that the pre-feed pump (3) is driven mechanically and that a zero flow line (18) branches off between the metering unit (14) and the principal feed pump (2). A throttle valve (19) is located in said zero flow line (18). The zero flow line (18) opens on the induction side of the pre-feed pump (3) into the fuel line (4).

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IPC 8 full level
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Cited by
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