

## Title (en)

HIGH-PRESSURE FUEL PUMP, IN PARTICULAR FOR A FUEL INJECTION DEVICE OF AN INTERNAL COMBUSTION ENGINE

## Title (de)

KRAFTSTOFFHOCHDRUCKPUMPE, INSBESONDERE FÜR EINE KRAFTSTOFFEINSPRITZEINRICHTUNG EINER BRENNKRAFTMASCHINE

## Title (fr)

POMPE À CARBURANT HAUTE PRESSION, EN PARTICULIER POUR LE SYSTÈME D'INJECTION DE CARBURANT D'UN MOTEUR À COMBUSTION INTERNE

## Publication

**EP 3189227 A1 20170712 (DE)**

## Application

**EP 15738071 A 20150714**

## Priority

- DE 102014217388 A 20140901
- EP 2015066025 W 20150714

## Abstract (en)

[origin: WO2016034316A1] The pump has at least one pump element (10) that includes a pump piston (12) which is driven in a reciprocating motion, is guided so as to be displaceable in a cylinder bore (18) of a housing part (20) of the pump, and delimits a pump working chamber (22) in said cylinder bore. The end of the pump piston (12) facing away from the pump working chamber (22) protrudes from the cylinder bore (18). The housing part (20) has an at least approximately cylindrical section (50) which surrounds the end portion of the cylinder bore (18) facing away from the pump working chamber (22). A sealing ring (52), the inner circumference of which rests against the pump piston (12) by way of a sealing lip (54), is arranged on the end portion of the pump piston (12) protruding from the cylinder bore (18). The sealing ring (52) is placed in a receptacle (58, 60) of the pump housing part (20), said receptacle surrounding the end portion of the pump piston (12) protruding from the cylinder bore (18); the sealing ring (52) and the pump housing part (20) delimit a chamber (74; 76) in the direction of the cylinder bore (18), said chamber being connected to a fuel supply line (26). The fuel supply line (26) runs through the chamber (74; 76) such that fuel that leaks into the chamber (74; 76) is discharged from the chamber (74; 76) by the stream in the fuel supply line (26).

## IPC 8 full level

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See references of WO 2016034316A1

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