

Title (en)
HIGH-PRESSURE FUEL PUMP

Title (de)
KRAFTSTOFFHOCHDRUCKPUMPE

Title (fr)
POMPE À CARBURANT HAUTE PRESSION

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Application
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Abstract (en)
[origin: WO2012041627A1] The invention relates to a high-pressure fuel pump of an internal combustion engine having a pump housing (1) for accommodating at least one pump element and a drive shaft for actuating the at least one pump element, wherein the pump housing (1) comprises at least one housing part (2) which is manufactured from plastic. According to the invention, the housing part (2) which is manufactured from plastic has a nanocrystalline metallic coating (4) which increases the strength and/or the temperature resistance, at least in the region of a mechanically and/or thermally highly loaded location (3). Furthermore, the invention relates to the use of a nanocrystalline metallic coating (4) in order to increase the strength and/or the temperature resistance of a housing part (2) of a high-pressure fuel pump.

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