Title (en)

METHOD FOR PRODUCING A HIGH-PRESSURE FUEL PUMP

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER KRAFTSTOFFHOCHDRUCKPUMPE

Title (fr)

PROCÉDÉ DE PRODUCTION D'UNE POMPE À CARBURANT HAUTE PRESSION

Publication

EP 3482062 A1 20190515 (DE)

Application

EP 17722784 A 20170511

Priority

- DE 102016212469 A 20160708
- EP 2017061272 W 20170511

Abstract (en)

[origin: WO2018007058A1] The invention relates to a method for producing a high-pressure fuel pump (22) comprising a pump housing (52) and a pot-shaped cover element (54), wherein the pump housing (52) and the cover element (54) are connected by a peripheral weld seam. The method comprises the following steps: - bringing the pump housing (52) into contact with a lower electrode (71), - gripping the cover element (54) using a collet chuck (80) and contacting the cover element (54) with an electrode (72), - bringing the open face of the cover element (54) into contact with the face of the pump housing (52) opposite the lower electrode (71), wherein the cover element (54) is centred on the face of the pump housing (52) opposite the lower electrode (71), - pressing the cover element (54) onto the pump housing (52) in the direction of the lower electrode (72) and introducing an electrical current from the electrode (72) via the cover element (54) and the pump housing (52) into the lower electrode (71) such that fusing occurs at the point of contact between the cover element (54) and the pump housing (52), and such that subsequently the cover element (54) is bonded to the pump housing (52).

IPC 8 full level

F02M 59/48 (2006.01)

CPC (source: EP KR US)

F02M 59/48 (2013.01 - EP KR US); F02M 2200/8084 (2013.01 - EP KR US)

Citation (search report)

See references of WO 2018007058A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102016212469 A1 20180111; CN 109477449 A 20190315; CN 109477449 B 20210615; EP 3482062 A1 20190515; EP 3482062 B1 20200708; JP 2019520518 A 20190718; JP 6780086 B2 20201104; KR 102311841 B1 20211014; KR 20190025610 A 20190311; US 10801454 B2 20201013; US 2019309716 A1 20191010; WO 2018007058 A1 20180111

DOCDB simple family (application)

DE 102016212469 A 20160708; CN 201780042470 A 20170511; EP 17722784 A 20170511; EP 2017061272 W 20170511; JP 2019500440 A 20170511; KR 20197000451 A 20170511; US 201716315315 A 20170511