Title (en)
METHOD FOR PRODUCING INJECTORS, IN PARTICULAR FUEL INJECTORS, AND INJECTOR

Title (de)
VERFAHREN ZUM HERSTELLEN VON INJEKTOREN, INSBESONDERE KRAFTSTOFFINJEKTOREN, SOWIE INJEKTOR

Title (fr)
PROCÉDÉ DE FABRICATION D'INJECTEURS, EN PARTICULIER D'INJECTEURS DE CARBURANT, AINSI QU'INJECTEUR

Publication
EP 3014096 B1 20180919 (DE)

Application
EP 14731663 A 20140623

Priority
• DE 102013212330 A 20130626
• EP 2014063129 W 20140623

Abstract (en)
[origin: WO2014206924A1] The invention relates to a method for pairing at least two injectors (1), in particular two fuel injectors (1) for a direct injection system of an internal combustion engine, wherein a criterion for the pairing of the at least two injectors (1) is a total leakage (L212) and/or a pressure difference ($\Delta\rho = p12_\infty - p\infty$, $\Delta\rho = p22 - p\infty$) at a transfer pin (212) of the respective injector (1). The invention further relates to a method for producing an injector (1), in particular a fuel injector (1) for a direct injection system of an internal combustion engine, wherein at least two instances of mechanical backlash (110/120, 210/212, 220/222), in particular instances of pairing backlash (110/120, 210/212, 220/222), that are relevant to injection amounts, leakage amounts (L112, L212, L222), and/or pressure differences ($\Delta\rho = pR-p12\approx$ /= $\Delta\rho = pR-p22$) of the injector (1) are paired with each other.

IPC 8 full level
F02M 1/16 (2006.01)

CPC (source: EP US)
F02M 51/0607 (2013.01 - US); **F02M 61/12** (2013.01 - US); **F02M 61/168** (2013.01 - EP US); **F02M 61/18** (2013.01 - US)

Citation (examination)
DE 102011079468 A1 20130124 - CONTINENTAL AUTOMOTIVE GMBH [DE]

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

DOCDB simple family (publication)
DE 102013212330 A1 20141231; CN 105308302 A 20160203; CN 105308302 B 20190705; CN 108518293 A 20180911;
EP 3014096 A1 20160504; EP 3014096 B1 20180919; US 10180123 B2 20190115; US 2016146169 A1 20160526;
WO 2014206924 A1 20141231

DOCDB simple family (application)
DE 102013212330 A 20130626; CN 201480036640 A 20140623; CN 201810270546 A 20140623; EP 14731663 A 20140623;
EP 2014063129 W 20140623; US 201414901340 A 20140623