

Title (en)

DEVICE FOR MEASURING THE INJECTION AMOUNT OF INJECTION SYSTEMS

Title (de)

VORRICHTUNG ZUM MESSEN DER EINSPRITZMENGE VON EINSPRITZSYSTEMEN

Title (fr)

DISPOSITIF DE MESURE DE LA QUANTITÉ D'INJECTION DE SYSTÈMES D'INJECTION

Publication

EP 4314541 A1 20240207 (DE)

Application

EP 22708440 A 20220208

Priority

- DE 102021202773 A 20210323
- EP 2022052995 W 20220208

Abstract (en)

[origin: WO2022199923A1] The invention relates to a device for measuring the injection amount of injection systems (1), more particularly for the functional testing of common-rail injectors, comprising a measurement chamber (4), which is formed by an assembly composed of a measurement piston (3) and of a cylinder housing (2) and to which the injection system (1) can be coupled pressure-tight by coupling means by means of a pressing force (Fpress) in order to introduce a test oil amount, which is injected by the injection system (1), into the test-oil-filled measurement chamber (4) so that the measurement piston (3), to which restoring force is applied, performs a measurement stroke (x) that can be sensed using sensor means (6), wherein the coupling means comprise an adapter unit (4), which is disposed between the injection system (1) and the measurement chamber (4) and which has an adapter volume (Va), and wherein the adapter volume (Va) of the adapter unit (9) is connected to a pressure-damping unit (13) so that injection-induced pressure excesses in the adapter volume (Va) are reduced.

IPC 8 full level

F02M 65/00 (2006.01)

CPC (source: EP)

F02M 65/001 (2013.01); **F02M 2200/315** (2013.01)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102021202773 A1 20220929; EP 4314541 A1 20240207; WO 2022199923 A1 20220929

DOCDB simple family (application)

DE 102021202773 A 20210323; EP 2022052995 W 20220208; EP 22708440 A 20220208