

Title (en)

Filler tube assembly particularly for engine oil tank

Title (de)

Einfülleinrichtung, insbesondere Öleinfülleinrichtung an einer Brennkraftmaschine

Title (fr)

Dispositif de remplissage en particulier pour carter d'huile de moteur à combustion

Publication

EP 1382808 B1 20080827 (DE)

Application

EP 03008240 A 20030409

Priority

DE 10232309 A 20020717

Abstract (en)

[origin: EP1382808A1] The opposed centering element (21) is radially spaced (RA) from the inner surfaces of the filler pipe (24,1) to lie inside the end sector (6) of the pipe (1) at the infill opening (3). The centering element (15) presents a pipe (20) of circular section as against the opposing element (21), also circular in section so the two centering elements lie concentrically within one another when the cap (4) is placed on the filler pipe (1). The outside diameter (DA) of the first centering pipe (20) is smaller than the second pipe (23) diameter (D) and the centering element (15) comes in one piece along with the cap (4). The opposing element (21) thrusts off the inner pipe surface by means of a strut (25) at spacing (RA).

IPC 8 full level

F01M 11/04 (2006.01)

CPC (source: EP US)

F01M 11/0408 (2013.01 - EP US); **F01M 2011/0491** (2013.01 - EP US); **Y10S 220/33** (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

AT DE FR GB IT SE

DOCDB simple family (publication)

EP 1382808 A1 20040121; **EP 1382808 B1 20080827**; AT E406506 T1 20080915; DE 10232309 A1 20040205; DE 10232309 B4 20040519; DE 50310400 D1 20081009; JP 2004052756 A 20040219; US 2004011792 A1 20040122; US 6988519 B2 20060124

DOCDB simple family (application)

EP 03008240 A 20030409; AT 03008240 T 20030409; DE 10232309 A 20020717; DE 50310400 T 20030409; JP 2003146286 A 20030523; US 61960203 A 20030716