

Title (en)
REFUELING NOZZLE

Title (de)
ZAPFPISTOLE ZUR BETANKUNG

Title (fr)
PISTOLET DE RAVITAILLEMENT EN CARBURANT

Publication
EP 3590884 A4 20201028 (EN)

Application
EP 17898603 A 20170301

Priority
JP 2017008062 W 20170301

Abstract (en)
[origin: EP3590884A1] [OBJECT] To provide a safety fueling nozzle capable of certainly removing static electricity generated while the fueling nozzle is used. [MEANS OF REALIZING THE OBJECT] A fueling nozzle 11 including: a main valve 12a opening through operation of a valve opening lever 14 to allow fuel oil to flow; an automatic valve closing mechanism 12b releasing engagement between the main valve and the valve opening lever to terminate fueling when sealed with a liquid surface in a tank to which the fuel oil is supplied; a main body 12 having the main valve and the automatic valve closing mechanism; a grip 15 made of conductive metal, the grip being held together with the valve opening lever when the valve opening lever is operated; a fueling hose 2 connected to the grip, the fueling hose supplying the fuel oil to the main body; a discharge pipe 13 discharging fuel oil that has passed through the main valve; a ground wire mounted to the fueling hose and connected to the grip; and a conductive cover 16 covering the grip.

IPC 8 full level
B67D 7/42 (2010.01); **B67D 7/04** (2010.01); **B67D 7/32** (2010.01); **B67D 7/46** (2010.01)

CPC (source: EP KR RU)
B67D 7/04 (2013.01 - EP); **B67D 7/3218** (2013.01 - KR); **B67D 7/34** (2013.01 - KR); **B67D 7/42** (2013.01 - KR RU); **B67D 7/421** (2013.01 - EP); **B67D 7/3236** (2013.01 - EP); **B67D 7/46** (2013.01 - EP)

Citation (search report)

- [Y] JP 2009012833 A 20090122 - TOKIKO TECHNO KK
- [Y] JP 2007153429 A 20070621 - TATSUNO CORP
- [Y] JP 2012091838 A 20120517 - TATSUNO CORP
- See references of WO 2018158872A1

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EP3590884B1

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)
EP 3590884 A1 20200108; **EP 3590884 A4 20201028**; **EP 3590884 B1 20230329**; CN 110382402 A 20191025; CN 110382402 B 20210730; CR 20190398 A 20191126; JP 6811943 B2 20210113; JP WO2018158872 A1 20191226; KR 102276574 B1 20210715; KR 20190119049 A 20191021; NZ 755692 A 20230929; PH 12019501978 A1 20200615; RU 2723231 C1 20200609; SG 11201907692P A 20190927; WO 2018158872 A1 20180907; ZA 201905022 B 20201223

DOCDB simple family (application)
EP 17898603 A 20170301; CN 201780087721 A 20170301; CR 20190398 A 20170301; JP 2017008062 W 20170301; JP 2019502354 A 20170301; KR 20197024571 A 20170301; NZ 75569217 A 20170301; PH 12019501978 A 20190828; RU 2019130730 A 20170301; SG 11201907692P A 20170301; ZA 201905022 A 20190730