

Title (en)

Method and apparatus for dispensing different types of fuel through the same filling nozzle

Title (de)

Verfahren und Vorrichtung zur Abgabe von unterschiedlichen Kraftstoffen mit derselben Zapfpistole

Title (fr)

Méthode et dispositif pour la distribution de différentes sortes de carburant au moyen du même pistolet de remplissage

Publication

**EP 0950635 B1 20020605 (DE)**

Application

**EP 98100517 A 19980114**

Priority

EP 98100517 A 19980114

Abstract (en)

[origin: EP0950635A1] The delivery system has a fuel return system which returns residual fuel to the relevant tank when another fuel type is selected. The multi-fuel system with a single delivery nozzle (14) has separate fuel feeds, from individual pumps (4), fed into a single metering system (9) which connects to the nozzle via control valves (11,12). When another fuel type is selected the fresh fuel displaces the residual fuel in the metering system and returns it to the tank via a return line (18) and control valves (19). When all the residual fuel has been replaced, as monitored by the metering system, the new fuel type is passed to the nozzle. The return feed uses the fuel vapor venting return system. The returned fuel is passed into the tank with the next lower grade.

IPC 1-7

**B67D 5/04**

IPC 8 full level

**B67D 7/04** (2010.01)

CPC (source: EP)

**B67D 7/04** (2013.01)

Cited by

EP1234714A1; CN109552660A; FR2794114A1; FR2794737A1; GB2561563A; GB2561563B; EP3757060A1; WO2016046519A1

Designated contracting state (EPC)

AT CH DE LI NL

DOCDB simple family (publication)

**EP 0950635 A1 19991020; EP 0950635 B1 20020605**; AT E218505 T1 20020615; DE 59804310 D1 20020711; PL 330778 A1 19990719

DOCDB simple family (application)

**EP 98100517 A 19980114**; AT 98100517 T 19980114; DE 59804310 T 19980114; PL 33077899 A 19990112