

Title (en)
FUEL FEED DEVICE

Title (de)
KRAFTSTOFFZUFUHRVORRICHTUNG

Title (fr)
DISPOSITIF D'ALIMENTATION EN CARBURANT

Publication
EP 1783354 A1 20070509 (EN)

Application
EP 05765589 A 20050708

Priority
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Abstract (en)
The object of the present invention is to provide a fuel supply apparatus, with which a fuel tank can be flexibly arranged in the vertical direction, with which the diameter of a fuel introducing passage can be smaller than the conventional fuel introducing passage, and with which the fuel introducing passage can bend in the vertical direction. Fuel which is introduced from the fuel tank 12 through the fuel introducing passage 14 is transiently stored in the fuel reservoir 16. The lower part of the fuel reservoir 16 and the pump room 30 of the solenoid pump 10 are connected through the inlet valve 36. The upper part of the fuel reservoir 16 and the sub pump 18 are connected through the sub fuel introducing passage 20. The sub pump 18 is connected to the upper part of the fuel tank 12 through the sub fuel eject passage 22. Vapor is accumulated at the upper part of the fuel reservoir 16, and the vapor is returned to the fuel tank 12 through the sub fuel introducing passage 20, sub pump 18, and the sub fuel eject passage 22. With this structure, flexibility in the vertical direction of the fuel tank 12 can be obtained, the diameter of the fuel introducing passage can be small, and the fuel introducing passage can bend in the vertical direction.

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Cited by
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