Title (en)

Electromagnetically operated valve.

Title (de)

Elektromagnetisch betätigbares Ventil.

Title (fr)

Soupape à commande électromagnétique.

Publication

EP 0585526 B1 19950802 (DE)

Application

EP 93107039 A 19930430

Priority

DE 4229105 A 19920901

Abstract (en)

[origin: JPH06159164A] PURPOSE: To obtain excellent service performances and achieve most suitable harmonization between and favorable effects on components by rendering the ratio of the resultant force of a main closing element to a movable mass to be smaller than the ratio of the resultant force of an auxiliary closing element to the movable mass. CONSTITUTION: A valve 1 for the clocked feeding of volatile fuel constituents out of a free space 3 of a fuel tank 4 into an intake manifold 5 of an internal combustion engine 6 is provided. Particularly, a main closing element 11 has a movable mass mI and an auxiliary closing element 12 has a movable mass mII. The main closing element 11 and the auxiliary closing element 12 sealingly contact corresponding valve seats through the force of a valve spring under no voltage condition. The main closing element 11, when actuated, is shiftable to an open position by a resultant force Fres I and the auxiliary closing element 12 is shiftable to an open position by a resultant force Fres II. The ratio Fres I/mI is smaller than the ratio Fres II/mII. This condition is most suitable for the valve 1.

IPC 1-7

F02M 25/08

IPC 8 full level

F02M 25/08 (2006.01)

CPC (source: EP US)

F02M 25/0836 (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

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DOCDB simple family (application)

DE 4229105 A 19920901; BR 9303048 A 19930729; CA 2105244 A 19930831; DE 59300427 T 19930430; EP 93107039 A 19930430; JP 21579993 A 19930831; US 11538493 A 19930901