

Title (en)

DEVICE FOR REGULATING THE AIR INPUT FLOW RATE TO AN INTERNAL COMBUSTION ENGINE CARBURETTOR

Publication

EP 0343515 A3 19900613 (EN)

Application

EP 89108969 A 19890518

Priority

IT 5318388 U 19880527

Abstract (en)

[origin: EP0343515A2] A device for regulating the air input flow rate to an internal combustion engine carburettor during cold-starting is described; the device consists of a butterfly valve disposed upstream of the carburettor diffuser, elastic opposition means, an actuator operated by the engine temperature increase, and mechanical transmission means connecting the actuator, the opposition means and the butterfly valve together in such a manner as to keep this latter normally closed when the engine is cold; the actuator incorporates a shape memory element (SME) arranged to selectively assume, as a function of the instantaneous engine temperature, a plurality of predetermined shapes.

IPC 1-7

F02D 11/10

IPC 8 full level

F02D 31/00 (2006.01); **F02D 41/06** (2006.01); **F02M 1/10** (2006.01)

CPC (source: EP)

F02D 31/004 (2013.01); **F02D 41/067** (2013.01); **F02M 1/10** (2013.01); **F05C 2201/021** (2013.01)

Citation (search report)

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- [A] US 4700682 A 19871020 - OTA ISAMU [JP], et al
- [Y] PATENT ABSTRACTS OF JAPAN, vol. 6050 (M-120) 3rd March 1982; & JP-A-56 165 798 (HITACHI LTD) 19-12-1981
- [AP] PATENT ABSTRACTS OF JAPAN, vol. 13006 (M-781) 9th January 1989; & JP-A-63 215 844 (MIKUNI KOGYO CO. LTD.) 08-09-1988
- [A] PATENT ABSTRACTS OF JAPAN, vol. 7, no. 81 (M-205)[1226] 5th April 1983; & JP-A-58 008 254 (NIHON KIKAKI SEISAKUSHO K.K.) 18-01-83

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Designated contracting state (EPC)

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