

Title (en)

SYSTEM FOR REGULATED DOSING OF COMBUSTION AIR INTO AN INTERNAL COMBUSTION ENGINE

Publication

**EP 0326553 B1 19901227 (DE)**

Application

**EP 87905601 A 19870904**

Priority

- DE 8700404 W 19870904
- DE 3631283 A 19860913

Abstract (en)

[origin: WO8802064A1] The system described enables, in the event of failure of the electric actuator (13) on the throttle (11) or of the control or power supply to said actuator, operation in the emergency mode and prevents in a reliable manner the blocking of the throttle (11) in a rest position. A return spring (15) is provided which is permanently meshed with the shaft (12) of the throttle and a preloaded opposing spring (21) with partial meshing with said shaft (12), said springs co-operating with an electromotive actuator (13).

IPC 1-7

**F02D 11/10**

IPC 8 full level

**F02D 9/02** (2006.01); **F02D 9/10** (2006.01); **F02D 11/10** (2006.01); **F02M 19/12** (2006.01)

CPC (source: EP US)

**F02D 11/107** (2013.01 - EP US); **F02M 19/12** (2013.01 - EP US)

Citation (opposition)

Opponent : vdo adolf schinling ag

- EP 0154036 A2 19850911 - HITACHI LTD [JP]
- DE 2358283 A1 19750528 - HOLLINS J R
- US 2766004 A 19561009 - LINDOW JOSEPH A
- JP S60230520 A 19851116 - AISAN IND
- DE 2232999 A1 19730118 - FORD WERKE AG
- US 4168680 A 19790925 - KAWAI NORIAKI, et al

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

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**DE 8700404 W 19870904**; DE 3631283 A 19860913; DE 3767163 T 19870904; EP 87905601 A 19870904; JP 50512987 A 19870904; US 34780189 A 19890313