

Title (en)  
Load control apparatus.

Title (de)  
Lastverstelleinrichtung.

Title (fr)  
Dispositif de réglage de charge.

Publication  
**EP 0388505 A2 19900926 (DE)**

Application  
**EP 89110065 A 19890603**

Priority  
DE 3909570 A 19890323

Abstract (en)  
Two intake ducts (2, 3), each with a throttle valve (4, 5), are provided next to one another in a throttle valve housing (1). The two throttle valves (4, 5) are each driven by a servomotor (17, 18). The control shafts (6, 7) of the throttle valves (4, 5) are connected to one another by a driver connection (8) having some play. Friction clutches (9, 10) permit rotation of each throttle valve (6, 7) in the idling direction even with the transmission (11, 12) or servomotor (17, 18) jammed. <IMAGE>

Abstract (de)  
In einem Drosselklappenstutzen (1) sind nebeneinander zwei Ansaugkanäle (2, 3) mit jeweils einer Drosselklappe (4, 5) vorgesehen. Beide Drosselklappen (4, 5) sind von jeweils einem Stellmotor (17, 18) angetrieben. Die Stellwellen (6, 7) der Drosselklappen (4, 5) sind durch eine Spiel aufweisende Mitnehmersverbindung (8) miteinander verbunden. Rutschkupplungen (9, 10) ermöglichen ein Verdrehen jeder Drosselklappe (6, 7) in Richtung Leerlauf selbst bei blockiertem Getriebe (11, 12) oder Stellmotor (17, 18).

IPC 1-7  
**F02D 11/10; F02M 13/04**

IPC 8 full level  
**F02D 9/10** (2006.01); **F02D 11/10** (2006.01); **F02M 3/07** (2006.01); **F02M 13/04** (2006.01)

CPC (source: EP US)  
**F02D 11/107** (2013.01 - EP US); **F02M 3/07** (2013.01 - EP US); **Y10T 137/87113** (2015.04 - EP US); **Y10T 137/87129** (2015.04 - EP US)

Cited by  
EP1712762A4; FR2900455A1; US7992589B2; US8074628B2; US8684033B2; WO2007125204A1; WO2007125205A1; WO2007129172A3

Designated contracting state (EPC)  
DE FR GB IT SE

DOCDB simple family (publication)  
**EP 0388505 A2 19900926; EP 0388505 A3 19901024; EP 0388505 B1 19931103**; DE 3909570 A1 19900927; DE 58906114 D1 19931209; JP H02259247 A 19901022; US 5036816 A 19910806

DOCDB simple family (application)  
**EP 89110065 A 19890603**; DE 3909570 A 19890323; DE 58906114 T 19890603; JP 24539889 A 19890922; US 48521090 A 19900223