

Title (en)
Load control apparatus.

Title (de)
Lastverstelleinrichtung.

Title (fr)
Dispositif de réglage de charge.

Publication
EP 0455877 B1 19950201 (DE)

Application
EP 90124326 A 19901215

Priority
DE 4014507 A 19900507

Abstract (en)
[origin: EP0455877A2] A load control device is provided with a throttle valve (9) determining the output of an internal combustion engine, which valve is rotationally fixed to a throttle valve shaft (32) supported in the throttle valve housing (30). In idling operation the throttle valve shaft (32) is controlled by an electric motor (14) and a post-connected four-bar linkage (16). This includes a pinion (14) arranged on the output shaft of the electric motor (14), which pinion meshes with a segment gear (50) which is drive-connected via a second linkage (53) to a rotor (54) driving the throttle valve shaft (32). Owing to the advantageous arrangement of the four-bar linkage (16) a very large transmission ratio can be obtained between the output shaft (40) of the electric motor (14) and the throttle valve shaft (32), so that it is possible to manage with a very small, cost-effective electric motor. <IMAGE>

IPC 1-7
F02D 11/10

IPC 8 full level
F02D 11/10 (2006.01)

CPC (source: EP)
F02D 11/10 (2013.01)

Cited by
EP1099841A3; EP1024268A3; EP1170487A3; EP1219802A3; WO9827326A1

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
EP 0455877 A2 19911113; EP 0455877 A3 19920226; EP 0455877 B1 19950201; DE 4014507 A1 19911114; DE 59008419 D1 19950316

DOCDB simple family (application)
EP 90124326 A 19901215; DE 4014507 A 19900507; DE 59008419 T 19901215