

Title (en)  
LOAD CONTROL APPARATUS

Publication  
**EP 0455877 A3 19920226 (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)

Citation (search report)

- [E] DE 4027069 A1 19910314 - MITSUBISHI ELECTRIC CORP [JP]
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- [Y] EP 0341341 A1 19891115 - VDO SCHINDLING [DE]
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Cited by  
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