

Title (en)  
Hydraulically-assisted engine valve actuator

Title (de)  
Hydraulisch unterstützte Betätigung von Motorventilen

Title (fr)  
Mécanisme de commande de soupapes à assistance hydraulique

Publication  
**EP 1253297 A1 20021030 (EN)**

Application  
**EP 01110230 A 20010425**

Priority  
EP 01110230 A 20010425

Abstract (en)  
A hydraulically-assisted engine valve actuator for assisting in the actuation of an engine valve, includes a servo piston being operably coupled to the engine valve. A translatable pilot valve is in fluid communication with the servo piston and the main piston and is operably coupled to and controlled by a pilot valve positioning system. The pilot valve positioning system controls a translational stroke of the pilot valve to meter hydraulic fluid under pressure to and from the servo piston. A stroke magnifier magnifies a stroke of the pilot valve positioning system. <IMAGE>

IPC 1-7  
**F01L 9/02**

IPC 8 full level  
**F01L 9/02** (2006.01); **F01L 9/10** (2021.01)

CPC (source: EP)  
**F01L 9/10** (2021.01)

Citation (search report)  
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Designated contracting state (EPC)  
AT DE FR GB IT SE

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