

Title (en)  
PIEZOCERAMIC ACTUATOR

Title (de)  
PIEZOKERAMISCHER AKTOR

Title (fr)  
ACTIONNEUR PIEZO-CERAMIQUE

Publication  
**EP 1911107 A1 20080416 (DE)**

Application  
**EP 06764208 A 20060719**

Priority  
• EP 2006064407 W 20060719  
• DE 102005034701 A 20050726

Abstract (en)  
[origin: WO2007012589A1] A fuel injection valve (1) has a piezoceramic actuator (2) with ceramic layers (26, 27) and electrically conducting intermediate layers (28, 29). For charging the actuator (2), an electric voltage can be applied to the electrically conducting intermediate layers (28, 29). The intermediate layers (28, 29) consist of silver and an absorbent of titanium oxide or zirconium oxide. In the production of the actuator (2), the absorbent forms a crystalline compound with a lead oxide excess provided in the ceramic layers (26, 27), so that the forming of the intermediate layers (28, 29) consisting of silver is improved.

IPC 8 full level  
**H01L 41/047** (2006.01); **F02M 51/06** (2006.01); **H01L 41/083** (2006.01); **H01L 41/273** (2013.01); **H01L 41/297** (2013.01)

CPC (source: EP)  
**F02M 51/0603** (2013.01); **F02M 61/08** (2013.01); **H10N 30/053** (2023.02); **H10N 30/067** (2023.02); **H10N 30/50** (2023.02); **H10N 30/877** (2023.02); **H10N 30/8554** (2023.02)

Citation (search report)  
See references of WO 2007012589A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**DE 102005034701 A1 20070201**; EP 1911107 A1 20080416; WO 2007012589 A1 20070201

DOCDB simple family (application)  
**DE 102005034701 A 20050726**; EP 06764208 A 20060719; EP 2006064407 W 20060719