

Title (en)  
Fuel injector drive circuit

Title (de)  
Treiberschaltung für eine Kraftstoff-Einspritzdüse

Title (fr)  
Circuit de commande pour injecteur de carburant

Publication  
**EP 1400676 A3 20060322 (EN)**

Application  
**EP 03255966 A 20030923**

Priority  
• US 25223702 A 20020923  
• US 40371303 A 20030331

Abstract (en)  
[origin: EP1400677A2] An injector system includes at least first and second injectors (22a, 22b), preferably of the piezoelectric type, and an injector drive control circuit. The drive control circuit (24) comprises select switch means (S1, S2) for controlling independent selection of the first or second injector (22a, 22b) to permit a discharging current to be supplied to the selected injector during a discharging mode so as to initiate an injection event, and charge/discharge switch means (Q1, Q2) for controlling whether the discharging current is supplied to the selected injector (22a, 22b) or whether a charging current is supplied to the selected injector during a charging mode so as to terminate the injection event. The first and second injectors (22a, 22b) are arranged electrically in parallel and operatively connected to the select and charge/discharge switch means (S1, S2, Q1, Q2) so that activation of the charge/discharge switch means to terminate the injection event results in respective voltages across the first and second injectors tending to equalise.

IPC 8 full level  
**F02D 41/20** (2006.01); **H01L 41/04** (2006.01)

CPC (source: EP)  
**F02D 41/2096** (2013.01); **F02D 2041/2051** (2013.01); **F02D 2041/2058** (2013.01); **F02D 2041/2072** (2013.01); **F02D 2041/2082** (2013.01)

Citation (search report)  
• [X] GB 2334164 A 19990811 - BOSCH GMBH ROBERT [DE]  
• [X] US 6016040 A 20000118 - HOFFMANN CHRISTIAN [DE], et al  
• [A] US 6435162 B1 20020820 - LINGL WOLFGANG [DE], et al  
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DOCDB simple family (publication)  
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DOCDB simple family (application)  
**EP 03255969 A 20030923**; EP 03255966 A 20030923