

Title (en)
Injector tester.

Title (de)
Einspritzprüfeinrichtung.

Title (fr)
Dispositif d'essai d'injecteurs.

Publication
EP 0238738 A1 19870930 (EN)

Application
EP 86302248 A 19860326

Priority
EP 86302248 A 19860326

Abstract (en)
A device for testing fuel injectors in situ. The device comprises a detector (10) having a piezo-electric crystal (50) which converts mechanical impulses caused by the fuel injector valve needle snapping back onto its seat into electrical signals. The signals are fed to electronic processing means (15) which detects the signal amplitude and displays it on an LED bar graph display (20) as an indication of the operating efficiency of the fuel injector. A timing system using the detector (10) as a generator of timing signals is also disclosed. A novel detector assembly (60) is also described. The detector assembly is an encapsulated sealed unit housing at least one piezo-electric element (64), two magnets (63, 65) and a pair of pole pieces (66, 67) in fixed spatial relationship during assembly and in use. The detector components are protected during encapsulation by a two piece carrier (62, 68).

IPC 1-7
F02M 65/00

IPC 8 full level
F02M 65/00 (2006.01)

CPC (source: EP)
F02M 65/00 (2013.01)

Citation (search report)
• [X] WO 8301814 A1 19830526 - DANIEL KELVIN JAMES
• [A] US 4319481 A 19820316 - YELKE EDWARD

Cited by
DE102004031239A1; EP0775894A3; EP0935744A4

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

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