

Title (en)
Method and apparatus for injecting fuel

Title (de)
Verfahren und Vorrichtung zum Einspritzen von Kraftstoff

Title (fr)
Procédé et dispositif d'injection de combustible

Publication
EP 1273795 B1 20050713 (DE)

Application
EP 02008887 A 20020420

Priority
DE 10132363 A 20010704

Abstract (en)
[origin: EP1273795A2] During partial/low load combined adjustment of a pump piston (5) in an injection pump (2) generates high injection pressure at an injection nozzle (4) set in a crank angle range of -20 degrees to -10 degrees before the top dead center of an engine's piston and in a speed range for the pump piston between 2.5 and 3.5 m/s. With its control edge (6) the pump piston can be twisted 'early' in a feed direction by means of a control rod (15). An Independent claim is also included for a device for carrying out the method of the present invention.

IPC 1-7
F02M 59/26; **F02M 59/20**; **F02D 1/16**

IPC 8 full level
F02D 1/16 (2006.01); **F02M 59/20** (2006.01); **F02M 59/26** (2006.01)

CPC (source: EP)
F02D 1/16 (2013.01); **F02D 1/162** (2013.01); **F02M 59/20** (2013.01); **F02M 59/26** (2013.01)

Cited by
EP2136054A1; EP2634389A1; WO2013127527A1; EP2752571A1; EP2677142A1; WO2013189603A1; EP2752561A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1273795 A2 20030108; **EP 1273795 A3 20040825**; **EP 1273795 B1 20050713**; AT E299555 T1 20050715; DE 50203607 D1 20050818

DOCDB simple family (application)
EP 02008887 A 20020420; AT 02008887 T 20020420; DE 50203607 T 20020420