

Title (en)

INJECTION NOZZLE FOR INTERNAL-COMBUSTION ENGINES, PARTICULARLY FOR DIESEL ENGINES

Publication

**EP 0246220 B1 19890927 (DE)**

Application

**EP 87890095 A 19870512**

Priority

AT 127786 A 19860513

Abstract (en)

[origin: EP0246220A1] 1. An injection nozzle for internal combustion engines, especially diesel engines, with a poppet valve comprising a valve disk and a valve stem, the lift of said poppet valve being very small upon opening on account of the fuel pressure in the direction of flow, and being limited by a stop, which is located in the vicinity of the valve disk and is formed by projections extending inwards on the valve cage and outwards on the valve stem, the adjacent contact faces of said projections being separated by the desired maximum lift when the valve is closed, wherein two radial projections on the valve cage are cast integral with the latter and form recesses in the valve cage, and wherein two projections on the valve stem are positioned diametrically opposite each other, subtending an angle of less than 90 degrees, axial alignment of said projections being obtained by turning the valve stem after it has been inserted into the valve cage through the recesses.

IPC 1-7

**F02M 61/08**; **F02M 61/16**; **F02M 61/20**

IPC 8 full level

**F02M 61/08** (2006.01); **F02M 61/16** (2006.01); **F02M 61/20** (2006.01)

CPC (source: EP)

**F02M 61/08** (2013.01); **F02M 61/165** (2013.01); **F02M 61/20** (2013.01)

Cited by

FR2668545A1; FR2763101A1; DE4322313A1; WO2008058634A1

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

**EP 0246220 A1 19871119**; **EP 0246220 B1 19890927**; AT 395638 B 19930225; AT A127786 A 19920615; DE 3760630 D1 19891102

DOCDB simple family (application)

**EP 87890095 A 19870512**; AT 127786 A 19860513; DE 3760630 T 19870512