

Title (en)

Fuel injection pump for internal-combustion engines.

Title (de)

Kraftstoffeinspritzpumpe für Brennkraftmaschinen.

Title (fr)

Pompe d'injection de combustibles pour moteurs à combustion interne.

Publication

EP 0203374 A1 19861203 (DE)

Application

EP 86105622 A 19860423

Priority

DE 8515957 U 19850531

Abstract (en)

1. Fuel injection pump for internal-combustion engines, with a pump piston moving to and fro and simultaneously rotating, with a camplate (22) connected to the pump piston (2) fixedly in terms of rotation and lift and running on rollers of a roller ring (27), with an axially fixed drive shaft (14) and with a take-up member (18) which connects the drive shaft (14) fixedly in terms of rotation to the camplate and which engages into axial drive connections arranged offset relative to one another on the mutually confronting end faces of the drive shaft and camplate, characterized in that the take-up member is designed as a cross-coupling piece (18), with a groove (16)/web (17)/plug connection as a drive connection, in which a take-up web (17) or a groove (20) on the cross-coupling piece (18) engages into a groove (16) or a take-up web (21) of corresponding width on the end of the drive shaft (24) or camplate (22), and in that the cross-coupling piece (18) is fixed axially via a collar (19) which engages between the roller ring (27) and a toothed-rim ring (29) connected fixedly in terms of rotation to the drive shaft (14).

Abstract (de)

Kraftstoffeinspritzpumpe für Brennkraftmaschinen mit einem hin- und hergehenden und gleichzeitig rotierenden Pumpenkolben (2)) der durch einen Nockentrieb (1) von einer Antriebswelle (14) her angetrieben wird, mit einer Hubnockenscheibe (22) und einem Kreuzkupplungsstück (18), das mit einem Mitnahmesteg (17) in eine Nut (16) des oberen Endes der Antriebswelle (14) greift.

IPC 1-7

F02M 41/12

IPC 8 full level

F02M 39/02 (2006.01); **F02M 41/12** (2006.01)

CPC (source: EP)

F02M 39/02 (2013.01); **F02M 41/121** (2013.01)

Citation (search report)

- [A] GB 903402 A 19620815 - BORG WARNER
- [A] FR 2286289 A1 19760423 - BOSCH GMBH ROBERT [DE]
- [A] US 2488769 A 19491122 - WILLIAM ENGSTROM

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0203374 A1 19861203; **EP 0203374 B1 19900131**; DE 3668667 D1 19900308; DE 8515957 U1 19860925; JP S61277866 A 19861208

DOCDB simple family (application)

EP 86105622 A 19860423; DE 3668667 T 19860423; DE 8515957 U 19850531; JP 12383586 A 19860530