

Title (en)

Starter drive with clutch in particular for an internal combustion engine in a vehicle

Title (de)

Anlasserantrieb mit Kupplung, insbesondere für Kraftfahrzeugbrennkraftmaschinen

Title (fr)

Démarreur notamment pour moteur thermique de véhicule automobile du type à lanceur à accouplement

Publication

EP 1298318 B1 20130424 (FR)

Application

EP 02291951 A 20020802

Priority

FR 0110911 A 20010817

Abstract (en)

[origin: EP1298319A1] The starter has an electric motor with an axially mobile pinion (5). The coupling between the motor shaft and the pinion provides damping of mechanical shocks, using a damper (20) between the connection (7) to the motor shaft and the connection (8) to the pinion. The damper (20) has radial slots that engage longitudinal projections on a drive flange (17) and on a driven flange (18).

IPC 8 full level

F02N 11/02 (2006.01); **F02N 15/02** (2006.01); **F02N 15/06** (2006.01)

CPC (source: EP KR)

F02N 11/02 (2013.01 - EP); **F02N 15/023** (2013.01 - EP); **F02N 15/06** (2013.01 - KR); **F02N 15/063** (2013.01 - EP)

Cited by

GB2409256A; GB2409256B

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 1298319 A1 20030402; BR 0203269 A 20030527; BR 0203269 B1 20101103; EP 1298318 A2 20030402; EP 1298318 A3 20060517; EP 1298318 B1 20130424; FR 2830574 A1 20030411; FR 2830574 B1 20040528; KR 100859849 B1 20080924; KR 20030016170 A 20030226

DOCDB simple family (application)

EP 02291987 A 20020725; BR 0203269 A 20020814; EP 02291951 A 20020802; FR 0110911 A 20010817; KR 20020048476 A 20020816