

Title (en)

STARTER, PARTICULARLY FOR A MOTOR VEHICLE, PROVIDED WITH A TORQUE-ACCUMULATING BENDIX GEAR

Title (de)

ANLASSERANTRIEB MIT KUPPLUNG, INSBESONDERE FÜR KRAFTFAHRZEUGE, AUSGERÜSTET MIT EINER TORSIONSDÄMPFUNGSVORRICHTUNG

Title (fr)

DEMARREUR, NOTAMMENT POUR VEHICULE AUTOMOBILE, EQUIPE D'UN LANCEUR ACCUMULATEUR DE COUPLE

Publication

**EP 1478844 B1 20080423 (FR)**

Application

**EP 03722671 A 20030225**

Priority

- FR 0300602 W 20030225
- FR 0202535 A 20020228

Abstract (en)

[origin: WO03072935A1] The bendix (10) on an electric starter motor is provided with a rotating output shaft (18) and a torsionally-elastic device (28), arranged between the pinion (12) and the automatically-disengaging torque transmission device, such as a conical clutch or freewheel (14), for storage of energy during the compression phases of the thermal engine and for restoration thereof during the decompression phases. The torsionally-elastic device (28) is axially offset with regard to the automatically-disengaging torque transmission device. Said device (28) guarantees adjustment of the play in the transmission elements, whilst reducing the noise level of the bendix during the starting of an internal combustion engine on a motor vehicle.

IPC 8 full level

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

CPC (source: EP KR)

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

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

**WO 03072935 A1 20030904**; AT E393311 T1 20080515; DE 60320536 D1 20080605; DE 60320536 T2 20090326; EP 1478844 A1 20041124; EP 1478844 B1 20080423; FR 2837532 A1 20030926; FR 2837532 B1 20051202; KR 20040091077 A 20041027

DOCDB simple family (application)

**FR 0300602 W 20030225**; AT 03722671 T 20030225; DE 60320536 T 20030225; EP 03722671 A 20030225; FR 0202535 A 20020228; KR 20047013291 A 20030225