

Title (en)

TRANSMISSION HOUSING, GEARBOX AND WHEELED VEHICLE PROVIDED WITH SUCH A GEARBOX

Title (de)

GETRIEBEGEHÄUSE, GETRIEBE UND RADFAHRZEUG MIT SOLCH EINEM GETRIEBE

Title (fr)

BOÎTIER DE TRANSMISSION, GROUPE MOTORÉDUCTEUR ET ENGIN ROULANT ÉQUIPÉ D'UN TEL GROUPE MOTORÉDUCTEUR

Publication

**EP 4185790 A1 20230531 (FR)**

Application

**EP 21742456 A 20210624**

Priority

- FR 2007735 A 20200723
- FR 2021051164 W 20210624

Abstract (en)

[origin: WO2022018337A1] A transmission housing (1) which can be coupled to the drive shaft (21) of an electric motor (20) to form a gearbox (22), the transmission housing (1) comprising a housing body (2) defining a cavity (4), and housed at least partially inside the cavity (4) - a rotary drive member (5), - an output shaft (6) and, - a device (7) for transmitting the rotational movement of the rotary drive member (5) to the output shaft (6), characterised in that the rotary drive member (5) is supported inside the cavity (4) of the housing body (2) by one or more guide members (8) and comprises a wall (9) and two coaxial helical teeth (10) created from a single part with the wall (9) and arranged on either side of the wall (9), the helical teeth (10) being configured to generate axial forces in opposite directions.

IPC 8 full level

**F16H 1/08** (2006.01); **A01D 69/06** (2006.01); **F16H 55/17** (2006.01)

CPC (source: EP US)

**A01D 69/02** (2013.01 - EP); **F16H 1/08** (2013.01 - EP); **F16H 1/10** (2013.01 - EP); **F16H 1/206** (2013.01 - US); **F16H 1/24** (2013.01 - US); **F16H 55/06** (2013.01 - US); **F16H 55/17** (2013.01 - EP); **F16H 57/021** (2013.01 - US); **A01D 69/02** (2013.01 - US); **A01D 69/06** (2013.01 - US); **F16H 1/20** (2013.01 - EP); **F16H 57/021** (2013.01 - EP); **F16H 2055/176** (2013.01 - EP); **F16H 2057/02034** (2013.01 - EP US); **F16H 2057/02056** (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2022018337 A1 20220127**; EP 4185790 A1 20230531; FR 3112833 A1 20220128; FR 3112833 B1 20221007; US 2023272840 A1 20230831

DOCDB simple family (application)

**FR 2021051164 W 20210624**; EP 21742456 A 20210624; FR 2007735 A 20200723; US 202118015070 A 20210624