

Title (en)

HARMONIC DRIVE

Title (de)

WELLGETRIEBE

Title (fr)

ENGRENAGE À ONDE DE DÉFORMATION

Publication

EP 3911845 A1 20211124 (DE)

Application

EP 19836787 A 20191217

Priority

- DE 102019101107 A 20190116
- DE 2019101099 W 20191217

Abstract (en)

[origin: WO2020147882A1] A harmonic drive (1) comprises three connection elements (2, 9, 12), namely an input element (2), an output element (13) and an adjusting element (9), and an antitwist mechanism (15) operates between the connection elements (2, 9, 12), the antitwist mechanism comprising an antitwist element (18), which is concentric to the connection elements (2, 9, 13) and interlockingly cooperates with one of the connection elements (9) and frictionally cooperates with one other connection element (2).

IPC 8 full level

F01L 1/352 (2006.01)

CPC (source: CN EP US)

F01L 1/352 (2013.01 - CN EP US); **F01L 1/46** (2013.01 - US); **F01L 2001/3521** (2013.01 - CN EP US); **F01L 2303/01** (2020.05 - EP US); **F01L 2303/02** (2020.05 - 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

DOCDB simple family (publication)

DE 102019101107 A1 20200716; **DE 102019101107 B4 20240516**; CN 113302380 A 20210824; CN 116641772 A 20230825; EP 3911845 A1 20211124; EP 3911845 B1 20240221; EP 3911845 C0 20240221; JP 2022518453 A 20220315; JP 7268166 B2 20230502; US 11686225 B2 20230627; US 2022243620 A1 20220804; WO 2020147882 A1 20200723

DOCDB simple family (application)

DE 102019101107 A 20190116; CN 201980089000 A 20191217; CN 202310721607 A 20191217; DE 2019101099 W 20191217; EP 19836787 A 20191217; JP 2021541160 A 20191217; US 201917423132 A 20191217