

Title (en)
IMPROVED TRANSFER DEVICE

Title (de)
VERBESSERTE TRANSFERVORRICHTUNG

Title (fr)
DISPOSITIF DE TRANSFERT PERFECTIONNE

Publication
EP 3817997 A1 20210512 (FR)

Application
EP 19733072 A 20190628

Priority
• FR 1856122 A 20180703
• EP 2019067406 W 20190628

Abstract (en)
[origin: WO2020007745A1] The transfer device comprises a central structure (20) having at least one transport segment (S21, S22, S23) with drive means (30-1, 30-2, 30-3). The transport segment is intended to receive a carriage (C1, C2, C3) which is mounted so as to be movable with respect to the central structure in a direction of movement. Said carriage has a plate bearing a series of permanent magnets in the direction of movement. The drive means (30) comprise a worm (30-1, 30-2, 30-3) along the transport segment (S21, S22, S23), said worm comprising a ferromagnetic helical perimeter, being mounted so as to be rotatable about an axis parallel to said direction of movement, and being arranged such that the successive turns of the helical perimeter are adjacent to at least some of the permanent magnets of said series.

IPC 8 full level
B65G 35/06 (2006.01); **B65G 54/02** (2006.01)

CPC (source: EP US)
B65G 35/063 (2013.01 - EP US); **B65G 37/00** (2013.01 - US); **B65G 54/02** (2013.01 - EP US)

Citation (search report)
See references of WO 2020007745A1

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)
WO 2020007745 A1 20200109; CA 3104958 A1 20200109; CN 113056428 A 20210629; CN 113056428 B 20231215; EP 3817997 A1 20210512; FR 3083532 A1 20200110; FR 3083532 B1 20211022; US 11548740 B2 20230110; US 2021269259 A1 20210902

DOCDB simple family (application)
EP 2019067406 W 20190628; CA 3104958 A 20190628; CN 201980059477 A 20190628; EP 19733072 A 20190628; FR 1856122 A 20180703; US 201917257362 A 20190628