

Title (en)
INTERNAL GEAR MACHINE

Title (de)
INNENZAHNRADMASCHINE

Title (fr)
MACHINE À ENGRENAGES INTÉRIEURS

Publication
EP 4136354 A1 20230222 (DE)

Application
EP 21716271 A 20210318

Priority
• DE 102020110217 A 20200414
• EP 2021056926 W 20210318

Abstract (en)
[origin: WO2021209222A1] The application relates to an internal gear machine (10) for reversing duty having a housing (12) with a chamber (14), in the chamber (14) there are disposed an externally toothed pinion (16) and an internally toothed ring gear (18), which mesh with one another, the rotational axes (20, 22) of which run parallel to and spaced apart from one another. The chamber (14) in the housing (12) is axially bounded and is connected via pressure pockets (40, 42) provided in the housing (12) to pressure connections (44, 46) in the internal gear machine (10). According to the invention, a switching valve (60, 62) is arranged in each connection between the pressure pockets (40, 42) and the pressure connections (44, 46) or compression spaces (78, 86), which valve opens or closes the connection.

IPC 8 full level
F04C 2/10 (2006.01); **F04C 2/08** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP US)
F04C 2/086 (2013.01 - EP); **F04C 2/101** (2013.01 - EP US); **F04C 14/04** (2013.01 - US); **F04C 15/0046** (2013.01 - EP);
F04C 15/0092 (2013.01 - EP); **F04C 15/064** (2013.01 - US); **F04C 2240/50** (2013.01 - EP)

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)
DE 102020110217 A1 20211014; CN 115380162 A 20221122; EP 4136354 A1 20230222; US 11905956 B2 20240220;
US 2023193899 A1 20230622; WO 2021209222 A1 20211021

DOCDB simple family (application)
DE 102020110217 A 20200414; CN 202180028042 A 20210318; EP 2021056926 W 20210318; EP 21716271 A 20210318;
US 202117996031 A 20210318