

Title (en)
SPECIALIZED CIVIL ENGINEERING MACHINE, IN PARTICULAR SLOTTED WALL MILLING MACHINE

Title (de)
SPEZIALTIEFBAUMASCHINE, INSBESONDERE SCHLITZWANDFRÄSE

Title (fr)
ENGIN SPÉCIAL DE GÉNIE CIVIL, NOTAMMENT FRAISEUSE À RIDEAU SOUTERRAIN

Publication
EP 3701091 A1 20200902 (DE)

Application
EP 19789960 A 20191017

Priority
• DE 102018131226 A 20181206
• EP 2019078134 W 20191017

Abstract (en)
[origin: WO2020114656A1] The invention relates to a specialized civil engineering machine, in particular a slotted wall milling machine, comprising at least one rotating tool and a tool drive which is arranged within a housing of the specialized civil engineering machine and is sealed from the surroundings by at least one bearing seal in the region of the machine shaft outlet from the housing to the driven tool. The invention is characterized in that the bearing seal comprises at least two separate seal elements, the arrangement of which forms a sealed chamber lying between the seal elements, wherein a pressure compensating device is provided which controls the chamber pressure in the sealed chamber according to the ambient pressure of the specialized civil engineering machine.

IPC 8 full level
E02D 17/13 (2006.01); **E02F 3/18** (2006.01); **E02F 3/20** (2006.01)

CPC (source: EP US)
E02D 3/12 (2013.01 - US); **E02D 17/13** (2013.01 - EP US); **E02F 3/18** (2013.01 - EP); **E02F 3/205** (2013.01 - EP US);
E02F 3/246 (2013.01 - EP US)

Cited by
EP3904603A1; WO2021219279A1

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 102018131226 A1 20200610; CN 113167046 A 20210723; CN 113167046 B 20230110; EP 3701091 A1 20200902;
EP 3701091 B1 20221130; JP 2022520146 A 20220329; JP 7252337 B2 20230404; US 12043974 B2 20240723; US 2022049449 A1 20220217;
WO 2020114656 A1 20200611

DOCDB simple family (application)
DE 102018131226 A 20181206; CN 201980081128 A 20191017; EP 19789960 A 20191017; EP 2019078134 W 20191017;
JP 2021531126 A 20191017; US 201917299009 A 20191017