

Title (en)
Shield machine

Title (de)
Schildvortriebsmaschine

Title (fr)
Machine à bouclier

Publication
EP 1959093 B1 20120523 (EN)

Application
EP 08250521 A 20080213

Priority
JP 2007036154 A 20070216

Abstract (en)
[origin: EP1959093A2] A shield machine according to the present invention includes: a body (1) having an oval cross section; a circular plate member (17) mounted on a front end-side portion of a shield machine main body (3); a first rotating mechanism (18) which rotates the circular plate member (17); a pair of pivot arms (19) which are rotatably supported by the circular plate member (17); a pair of second rotating mechanisms (20) which rotate the pair of pivot arms (19); a pair of head supporting members (19a) which are firmly fixed to tip end portions of the pivot arms (19); a pair of rotary cutter heads (4) which are rotatably mounted on the head supporting members (19a) and each of which has a diameter that is half a short diameter of the oval cross section of the body; and a pair of third rotating mechanisms (21) which rotate the rotary cutter heads (4) around third center axes.

IPC 8 full level
E21D 9/11 (2006.01)

CPC (source: EP)
E21D 9/117 (2013.01)

Cited by
DE102019129544A1; CN101967980A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1959093 A2 20080820; EP 1959093 A3 20110504; EP 1959093 B1 20120523; ES 2388358 T3 20121011; JP 2008202220 A 20080904; JP 4936450 B2 20120523

DOCDB simple family (application)
EP 08250521 A 20080213; ES 08250521 T 20080213; JP 2007036154 A 20070216