

Title (en)

ROBOT-SUPPORTED FLEXIBLE-ARM BORING MACHINE CAPABLE OF EXCAVATING TUNNEL WITH ARBITRARY CROSS SECTION

Title (de)

ROBOTERUNTERSTÜTZTE BIEGEARMBOHRMASCHINE ZUM AUSHEBEN EINES TUNNELS MIT BELIEBIGEM QUERSCHNITT

Title (fr)

MACHINE DE FORAGE À BRAS FLEXIBLE SUPPORTÉE PAR UN ROBOT POUVANT EXCAVER UN TUNNEL AVEC UNE SECTION TRANSVERSALE ARBITRAIRE

Publication

**EP 3872299 A1 20210901 (EN)**

Application

**EP 19875605 A 20190610**

Priority

- CN 201811259349 A 20181026
- CN 2019090461 W 20190610

Abstract (en)

Disclosed is a robot (4)-supported flexible-arm boring machine capable of excavating a tunnel with any cross-section, comprising a cutterhead and cutter system (1) and a main beam (6). A rear portion of the main beam (6) is connected to a front portion of a rear gripper (8) by means of a thrust cylinder (7); a rear portion of the rear gripper (8) is connected to a rear support (9); and a front portion of the main beam (6) is flexibly connected to the cutterhead and cutter system (1) by means of a robot (4).

IPC 8 full level

**E21D 9/087** (2006.01)

CPC (source: CN EP)

**E21D 9/087** (2013.01 - EP); **E21D 9/0874** (2016.01 - EP); **E21D 9/0875** (2016.01 - CN); **E21D 9/093** (2016.01 - EP); **E21D 9/11** (2013.01 - EP); **E21D 9/117** (2013.01 - EP)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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