

Title (en)  
MOVABLE SHOVE FRAME STRUCTURE, DEVICE FOR STARTING TUNNELS AND METHOD FOR STARTING THE CONSTRUCTION OF TUNNELS

Title (de)  
BEWEGLICHE SCHUBRAHMENKONSTRUKTION, VORRICHTUNG ZUM STARTEN VON TUNNELN UND VERFAHREN ZUM STARTEN DES BAUS EINES TUNNELS

Title (fr)  
STRUCTURE DE CADRE DE POUSSÉE MOBILE, DISPOSITIF DE DÉMARRAGE DE TUNNELS ET PROCÉDÉ DE DÉMARRAGE DE LA CONSTRUCTION DE TUNNELS

Publication  
**EP 3626931 B1 20230607 (EN)**

Application  
**EP 18196174 A 20180924**

Priority  
EP 18196174 A 20180924

Abstract (en)  
[origin: EP3626931A1] Movable shove frame structure, device for starting tunnels and method for starting the construction of tunnels. The movable shove frame structure (1) comprises:- a shove frame (2) that comprises support legs (3), - a shove ring (4) and- a thrust ring (5) placed between the shove frame (2) and the shove ring (4), - a gliding element (6) under each support leg (3) of the shove frame (2) and- removable fixing means (7) to anchor the support legs (3) to the floor (8). The method for making tunnels uses the device for starting tunnels and comprises a starting position, an advancement or pushing step, pulling steps, a cyclical repetition of pushing and pulling steps and a final step.

IPC 8 full level  
**E21D 9/00** (2006.01); **E21D 9/06** (2006.01)

CPC (source: EP)  
**E21D 9/005** (2013.01); **E21D 9/0621** (2013.01)

Cited by  
CN112832786A; CN111456745A

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

DOCDB simple family (publication)  
**EP 3626931 A1 20200325; EP 3626931 B1 20230607**

DOCDB simple family (application)  
**EP 18196174 A 20180924**