Title (en)

An excavating method and apparatus for constructing the base of a tunnel

Title (de)

Verfahren und Grabvorrichtung zur Herstellung von Tunnelsohlen

Title (fr)

Procédé et dispositif d'excavation pour la construction du sol dans un tunnel

Publication

EP 0757158 B1 20000426 (EN)

Application

EP 96110660 A 19960702

Priority

IT TO950652 A 19950802

Abstract (en)

[origin: EP0757158A1] An excavating apparatus for constructing, remaking, reinforcing or restoring any part of the base of a tunnel, such to provide an inverted arch (18) or resting piers structure adequate for sustaining the tunnel (11), comprises a power driven trencher excavating means (20) so restrained as to accomplish a combined movement of: oscillation about an axis substantially parallel to the longitudinal axis of the tunnel; sliding in a direction perpendicular to said axis; and transverse horizontal translation together with said oscillation axis, along a horizontal guide means (10) extending transversely in the tunnel (11). There is also disclosed an excavating method making use of such an apparatus. <IMAGE>

IPC 1-7

E21D 9/00

IPC 8 full level

E21D 9/00 (2006.01)

CPC (source: EP)

E21D 9/01 (2016.01)

Cited by

DE19810475A1; CN110226526A; CN106223960A; EP0887512A3; DE19722459C1; CN109371765A

Designated contracting state (EPC)

AT CH DE ES FR GB IT LI

DOCDB simple family (publication)

EP 0757158 A1 19970205; **EP 0757158 B1 20000426**; AT E192213 T1 20000515; DE 69607901 D1 20000531; DE 69607901 T2 20001102; ES 2147330 T3 20000901; IT 1280890 B1 19980211; IT TO950652 A0 19950802; IT TO950652 A1 19970202

DOCDB simple family (application)

EP 96110660 A 19960702; AT 96110660 T 19960702; DE 69607901 T 19960702; ES 96110660 T 19960702; IT TO950652 A 19950802