

Title (en)
BORING RAM FOR LAYING SERVICE LINES WITHOUT EXCAVATION

Publication
EP 0356666 B1 19931013 (DE)

Application
EP 89112633 A 19890711

Priority
DE 3829628 A 19880901

Abstract (en)
[origin: EP0356666A2] A boring ram (1, 101) for laying service lines in the ground without excavation, with a percussion piston (3, 103) axially displaceable in a tubular housing (2, 102) and operated by means of a pressure medium via a supply hose (7, 107) connected to the housing (2, 102), the supply hose (7, 107) being connected to the end of the housing (2, 102) at the front in the direction of advance (5, 105), does not impede work on new pipes pushed into the ground conduit produced or drawn in immediately afterwards by the boring ram (1, 101). <IMAGE>

IPC 1-7
E03F 3/06; E21B 4/14; E21B 7/26; E21B 7/28; F16L 1/00

IPC 8 full level
E21B 7/26 (2006.01); **E21B 4/14** (2006.01); **E21B 7/30** (2006.01)

CPC (source: EP US)
E21B 4/145 (2013.01 - EP US); **E21B 7/30** (2013.01 - EP US)

Citation (examination)
EP 0350806 A2 19900117 - BROCHIER FA HANS [DE]

Designated contracting state (EPC)
BE CH FR GB IT LI NL

DOCDB simple family (publication)
EP 0356666 A2 19900307; EP 0356666 A3 19910130; EP 0356666 B1 19931013; DE 3829628 A1 19900315; DE 3829628 C2 19900816; JP H02101281 A 19900413; US 4981181 A 19910101

DOCDB simple family (application)
EP 89112633 A 19890711; DE 3829628 A 19880901; JP 21588389 A 19890822; US 38733589 A 19890728