

Title (en)

Apparatus for laying pipelines without excavation.

Title (de)

Vorrichtung zum grabenlosen Verlegen von Rohrleitungen.

Title (fr)

Dispositif pour la pose de conduites tubulaires sans excavation.

Publication

EP 0496981 B1 19950201 (DE)

Application

EP 91120644 A 19911130

Priority

DE 4042140 A 19901228

Abstract (en)

[origin: EP0496981A2] Apparatus for laying pipelines without excavation in earth which is not rocky, consisting of a drawn clearing head (1) with passage openings (8) for the earth and a follow-up pipe (12; 27; 28, 29; 38) connected to it. The clearing head preferably consists of a first pipe (2, 18) of smaller diameter and a concentric second pipe (3, 19) of larger diameter surrounding the first pipe (2, 18). The diameter of the second pipe (3, 19) corresponds to the diameter of the bore for the pipeline to be laid. The first pipe and the second pipe are connected to one another by at least three radially arranged webs (4, 20). A hauling rope running through a pilot bore (30) or a pneumatically driven percussion drilling device, which provide for the advance of the clearing head with the follow-up pipe, can be hung in the clearing head. <IMAGE>

IPC 1-7

E21B 7/26; **E21B 7/28**; **E21B 7/20**; **E21B 17/02**

IPC 8 full level

E21B 7/20 (2006.01); **E21B 7/26** (2006.01); **E21B 7/28** (2006.01); **E21B 7/30** (2006.01); **E21B 17/02** (2006.01)

CPC (source: EP US)

E21B 7/205 (2013.01 - EP US); **E21B 7/28** (2013.01 - EP); **E21B 7/30** (2013.01 - EP); **E21B 17/02** (2013.01 - EP US)

Citation (examination)

- DE 3903864 C1 19890720
- EP 0184678 A1 19860618 - WITZENMANN METALLSCHLAUCHFAB [DE]
- US 4842059 A 19890627 - TOMEK MARTIN L [US]
- WO 8502215 A1 19850523 - MERSTAN IMPACT MOLING LIMITED [GB]

Cited by

DE10297180B4; CN108590692A; DE19749007A1; DE19749007C2; FR2809449A1; US6644887B2

Designated contracting state (EPC)

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EP 0496981 A2 19920805; **EP 0496981 A3 19921125**; **EP 0496981 B1 19950201**; AT E118065 T1 19950215; DE 4042140 C1 19920213; DE 59104495 D1 19950316; DK 0496981 T3 19950626

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