

Title (en)
UNDERWATER TRENCHING MACHINE

Publication
EP 0112877 B1 19861001 (EN)

Application
EP 83902110 A 19830628

Priority
GB 8218816 A 19820629

Abstract (en)
[origin: WO8400183A1] A machine for underwater trenching for pipelines in which a sled (1) comprising two pipe loops (2) arranged in vertical planes at opposite sides of the pipeline (4) and interconnected by transverse pipes (3) is supported on and guided for movement along the pipeline by rubber-faced rollers (6, 7, 8, 9). High pressure water is supplied to the loops through connection (20). Nozzles (18) in the front vertical runs of the loops (2) break up the soil in the face of the trench (5). Nozzles (15) of water jet pumps suck soil from the trench through the forwardly facing inlets (11), adjacent the bottom of the sled, of two eductor tubes (10) carried by the loops (2) at opposite sides of the pipeline, and discharge it through discharge outlets (14) directed respectively outwardly sideways and mainly rearwardly of the sled. The water and soil discharge produces a reaction which propels the sled forwards.

IPC 1-7
E02F 5/10

IPC 8 full level
E02F 5/10 (2006.01); **E02F 9/02** (2006.01)

CPC (source: EP)
E02F 5/105 (2013.01); **E02F 5/107** (2013.01); **E02F 5/108** (2013.01); **E02F 9/026** (2013.01)

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
WO 8400183 A1 19840119; DE 3366582 D1 19861106; DK 113084 A 19840228; DK 113084 D0 19840228; DK 152549 B 19880314; DK 152549 C 19880815; EP 0112877 A1 19840711; EP 0112877 B1 19861001; NO 840667 L 19840222

DOCDB simple family (application)
GB 8300162 W 19830628; DE 3366582 T 19830628; DK 113084 A 19840228; EP 83902110 A 19830628; NO 840667 A 19840222