

Title (en)
IMMERSION VIBRATOR

Publication
EP 0039474 B1 19830720 (DE)

Application
EP 81103212 A 19810429

Priority
DE 3016841 A 19800502

Abstract (en)
[origin: US4415046A] A deep vibrator includes a propulsion head (1) vibrating in a transverse direction with respect to the longitudinal axis of a suspension tube propulsion head being secured to the lower end of a suspension tube (2) while the outer wall of the suspension tube (2) includes pipes (4) arranged in the longitudinal direction thereof having at the lower end of the propulsion head (1) a spraying nozzle through which water may be fed under pressure, further spraying nozzles being distributed along the length of the pipes (4,5) and so aligned that they spray water into the annular space surrounding the suspension tube (2) thereby washing ground material toward the propulsion head.

IPC 1-7
E02D 3/054; **E02D 7/26**; **E02D 5/32**

IPC 8 full level
E02D 3/054 (2006.01); **E02D 5/32** (2006.01); **E02D 7/26** (2006.01)

CPC (source: EP US)
E02D 3/054 (2013.01 - EP US); **E02D 5/32** (2013.01 - EP US); **E02D 7/26** (2013.01 - EP US)

Cited by
DE19628769A1; DE19628769C2

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0039474 A1 19811111; **EP 0039474 B1 19830720**; AT E4233 T1 19830815; AU 6990981 A 19811105; DE 3016841 A1 19811126; DE 3016841 C2 19841129; DE 3160640 D1 19830825; US 4415046 A 19831115; ZA 812475 B 19820428

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