

Title (en)
HAMMER

Publication
EP 0284759 B1 19900725 (DE)

Application
EP 88102341 A 19880218

Priority
DE 3710928 A 19870401

Abstract (en)
[origin: US4871034A] In a rammer for driving in pipes open in the direction of ramming, in which a piston, axially reciprocated in a housing having an impact head, imparts its thrust to the housing, making the impact head integral with the housing allows a shorter rammer to be used without loss of thrust.

IPC 1-7
E02D 7/10; **E21B 7/26**

IPC 8 full level
E02D 7/10 (2006.01); **E21B 4/14** (2006.01); **E21B 7/04** (2006.01); **E21B 7/26** (2006.01)

CPC (source: EP US)
E02D 7/10 (2013.01 - EP US); **E21B 4/145** (2013.01 - EP US); **E21B 7/046** (2013.01 - EP US)

Cited by
CN105603979A; CN110486531A; DE202023101652U1

Designated contracting state (EPC)
BE ES FR GB IT NL

DOCDB simple family (publication)
EP 0284759 A1 19881005; **EP 0284759 B1 19900725**; DE 3710928 A1 19881013; DE 3710928 C2 19920130; DE 8717637 U1 19891130; ES 2016394 B3 19901101; JP S63261013 A 19881027; US 4871034 A 19891003

DOCDB simple family (application)
EP 88102341 A 19880218; DE 3710928 A 19870401; DE 8717637 U 19870401; ES 88102341 T 19880218; JP 7582488 A 19880329; US 16101888 A 19880226