

Title (en)
HAMMER DRILL OR CONCRETE BREAKER

Publication
EP 0429475 B1 19930929 (DE)

Application
EP 89908388 A 19890719

Priority
DE 3826213 A 19880802

Abstract (en)
[origin: WO9001400A1] A hammer drill or concrete breaker with idling control comprises a simplified percussion tool and an additional rotary drive. The guide tube (6) of the percussion tool (3) comprises an idling control orifice (14) which is closed, during the percussion mode, by a guide piece (25) attached to the housing. During idling, the guide tube (6) is thrust forward by the spring, thereby opening the control orifice (14). The rotary drive for the tool holder (4) is provided by longitudinal teeth (10) on the guide tube (6) and by toothing (19/21) arranged between the guide tube (6) and the tool holder (4). The percussion tool can be used in light and heavy motor-driven hammers, in particular in hammer drills.

IPC 1-7
B23B 45/16; B25D 9/08; B25D 11/12; B25D 16/00

IPC 8 full level
B25D 9/04 (2006.01); **B23B 45/16** (2006.01); **B25D 9/08** (2006.01); **B25D 9/16** (2006.01); **B25D 11/00** (2006.01); **B25D 11/12** (2006.01); **B25D 16/00** (2006.01); **B25D 17/06** (2006.01)

CPC (source: EP US)
B25D 11/005 (2013.01 - EP US); **B25D 16/00** (2013.01 - EP US); **B25D 17/06** (2013.01 - EP US); **B25D 2211/068** (2013.01 - EP US); **B25D 2250/035** (2013.01 - EP US)

Cited by
JP2000334681A; BG66156B1; DE19810088C1; DE19724531B4; EP1661668A1; US7306048B2; US6675908B1

Designated contracting state (EPC)
CH DE GB LI

DOCDB simple family (publication)
WO 9001400 A1 19900222; DE 3826213 A1 19900215; DE 58905786 D1 19931104; EP 0429475 A1 19910605; EP 0429475 B1 19930929; JP 2746712 B2 19980506; JP H04500043 A 19920109; US 5111890 A 19920512

DOCDB simple family (application)
DE 8900478 W 19890719; DE 3826213 A 19880802; DE 58905786 T 19890719; EP 89908388 A 19890719; JP 50770089 A 19890719; US 64660691 A 19910129