

Title (en)
HAND POWER TOOL USING AUTOMATIC LOCKING OF THE WORKING SPINDLE

Publication
EP 0319813 B1 19920527 (DE)

Application
EP 88119771 A 19881128

Priority
DE 3741484 A 19871208

Abstract (en)
[origin: EP0319813A2] So that a hand power tool, in particular an angle grinder, with a drive, a work spindle having a tool clamping device, and a safety device which can be operated from outside a power tool housing and by means of which the tool clamping device can be shifted from a manually releasable position into a manually non-releasable position clamping the tool - and vice versa - is improved in such a way that, in the simplest possible design, rotation of the work spindle is not possible when releasing or manually tightening the tool clamping device, it is proposed that a locking device be provided for fixing the work spindle on the power tool housing in such a way as to be locked in terms of rotation, which locking device, when the drive is switched off and in the position of the safety device in which the tool clamping device can be manually released, automatically locks the work spindle in terms of rotation and vice versa. <IMAGE>

IPC 1-7
B24B 23/02; **B24B 45/00**

IPC 8 full level
B24B 45/00 (2006.01); **B24B 23/02** (2006.01)

CPC (source: EP KR US)
B24B 23/022 (2013.01 - EP US); **B24B 41/04** (2013.01 - KR); **B24B 45/00** (2013.01 - KR); **B24B 45/006** (2013.01 - EP US);
Y10T 83/9379 (2015.04 - EP US)

Cited by
EP2017036A1; EP0650805A1; EP0380974A3; CN108274435A; DE102015001146B4; EP1180416A3; CN103153536A; NL1033187C2; CN111867782A; CN110039420A; US9789624B2; EP1864751A1; CN103111989A; CN109843486A; KR20190071709A; RU2748674C2; WO2012089641A1; WO2012089637A3; US11890720B2; US8187058B2; US7537065B2; WO2023099084A1; WO2018072995A1; WO2008085029A1; WO2019162220A1

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

DOCDB simple family (publication)
EP 0319813 A2 19890614; **EP 0319813 A3 19900228**; **EP 0319813 B1 19920527**; DE 3741484 C1 19890824; DE 3871502 D1 19920702; JP H01193164 A 19890803; JP H0661694 B2 19940817; KR 890009540 A 19890802; KR 930007111 B1 19930730; US 4989374 A 19910205

DOCDB simple family (application)
EP 88119771 A 19881128; DE 3741484 A 19871208; DE 3871502 T 19881128; JP 30898588 A 19881208; KR 880016379 A 19881208; US 27549788 A 19881123