

Title (en)
VIBRATIONS PRODUCING HAND TOOL

Publication
EP 0206981 A3 19881109 (DE)

Application
EP 86810196 A 19860430

Priority
DE 3521808 A 19850619

Abstract (en)
[origin: US4711308A] A hand-held tool, such as a hammer drill or chipping hammer, includes a housing with a driving unit for supplying the driving force for the tool with the driving unit generating vibrations. A handle is mounted on the housing and is displaceable in the direction of the main vibration axis. A stop for the forward movement of the handle is provided by an electromagnet. The electromagnet is formed by a yoke, an armature and a magnetic coil and exerts a controlled constant force on the handle and the housing independently of the position of the handle relative to the housing. The electromagnet can be controlled depending on the position of use of the hand-held tool.

IPC 1-7
B25F 5/02; **B25D 17/04**; **B25D 17/24**

IPC 8 full level
B25D 17/04 (2006.01); **B25D 17/24** (2006.01); **B25F 5/00** (2006.01); **B25F 5/02** (2006.01)

CPC (source: EP US)
B25D 17/043 (2013.01 - EP US); **B25F 5/006** (2013.01 - EP US)

Citation (search report)
• [A] US 4282938 A 19810811 - MINAMIDATE MAKOTO
• [A] GB 1199417 A 19700722 - BINDER MAGNETE [DE]
• [A] BE 498593 A
• [A] DE 3121882 A1 19820211 - HITACHI KOKI KK [JP]

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JP2009513366A; DE10138123A1; DE102005031074A1; GB2451293A; US6148930A; US6076616A; DE19646622B4; DE10158266A1; DE10158266B4; DE10036078A1; DE10036078B4; US7100706B2; WO9821014A1; WO02083369A1; WO9829220A1; US7076838B2; EP2216141A1; EP0916239B1

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