

Title (en)
Gearbox for a hand tool.

Title (de)
Handwerkzeug mit Schaltgetriebe.

Title (fr)
Outil à main avec boîte d'engrenage.

Publication
EP 0373106 B1 19940119 (DE)

Application
EP 89810887 A 19891120

Priority
DE 3841515 A 19881209

Abstract (en)
[origin: EP0373106A2] The hand tool has a gearbox whose output shaft (21) can be coupled via a shift member (31) to gears (23, 24, 25) in such a way as to be fixed in terms of rotation. To change gears, the shift member (31) is displaced by a slide (35) which is actuated by a rotatable handle (36). The actuation is effected by driving dogs (37a, 37b) on the handle (36) which, when the handle (36) is turned, engage into engagement openings (38a, 38b), arranged one behind the other, of the slide (35) and drive the slide (35) in accordance with the direction of rotation. <IMAGE>

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B25D 16/00; **B23B 45/00**; **B25F 5/00**

IPC 8 full level
B23B 45/00 (2006.01); **B25D 16/00** (2006.01); **B25F 5/00** (2006.01)

CPC (source: EP US)
B25D 16/006 (2013.01 - EP US); **B25D 2211/003** (2013.01 - EP US); **B25D 2250/201** (2013.01 - EP US)

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EP 0373106 A2 19900613; **EP 0373106 A3 19910508**; **EP 0373106 B1 19940119**; DE 3841515 A1 19900613; DE 58906768 D1 19940303; JP H02190205 A 19900726; US 4998588 A 19910312

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EP 89810887 A 19891120; DE 3841515 A 19881209; DE 58906768 T 19891120; JP 31788989 A 19891208; US 44801889 A 19891208