

Title (en)
Ratchet wrench

Title (de)
Ratschenschlüssel

Title (fr)
Clé à cliquet

Publication
EP 1484135 B1 20060208 (EN)

Application
EP 03018541 A 20030818

Priority
US 45419603 A 20030605

Abstract (en)
[origin: EP1484135A1] A wrench includes a handle (10), a clutch (30), a detent, a controller (40), a gear (20) and a C-ring (21). The handle includes an annular head (11) defining a circular space (12), a pothole (13) not overlapping the circular space, a channel (15) for communicating the circular space with the pothole, a recess (14) and an annular groove (16) both defined in a wall of the circular space. The clutch includes two claws (31) put in the recess and a spring (32) put between the claws. Each of the claws includes a toothed face (33) and a rod (34). The claws can easily be put into the recess since the rods can be moved through the channel. A controller is put rotationally in the pothole for moving the rods. The gear is put in the circular space. The gear includes a toothed face (22) for engagement with the toothed face of one of the claws. The C-ring includes an external edge put in the annular groove, an internal edge for retaining the annular gear in the circular space and a gate (23) projecting from an upper face for blocking the channel. <IMAGE>

IPC 8 full level
B25B 13/46 (2006.01)

CPC (source: EP)
B25B 13/463 (2013.01)

Cited by
GB2447765B; EP2135708A1; GB2448405A; GB2448405B; GB2485947A; GB2486829A; GB2485947B; GB2486829B; GB2605497A; GB2605497B; US7987747B2; USRE44655E; US11865678B2

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DOCDB simple family (application)
EP 03018541 A 20030818; CN 200310116514 A 20031114; DE 60303469 T 20030818; EP 05021712 A 20030818