

Title (en)
Hand tool having an adjustable head with a joint mechanism

Title (de)
Handwerkzeug mit einem gelenkig einstellbaren Kopf

Title (fr)
Outil à main avec un système d'articulation

Publication
EP 1637287 B1 20091118 (EN)

Application
EP 05251706 A 20050321

Priority
CN 200420092792 U 20040920

Abstract (en)
[origin: EP1637287A1] A hand tool (10) having an adjustable head (20) with a joint lock mechanism (40) comprises a head (20) having a rear end and a handle (30) having a front end pivotally coupled to the rear end of the head. The handle has a first aperture (33) longitudinally extending at the front end thereof and a second aperture (34) is formed perpendicularly intersecting the first aperture (33). The joint lock mechanism (40) is disposed between the rear end of the head (20) and the front end of the handle (30) and further comprises: a first engaging device (23) disposed at the rear end of the head; a second engaging device (42) received in the first aperture (33), the second engaging device (42) having a front end and a rear end; a push button (43) received in the second aperture (34); and a first elastic device (41) received in the first aperture (33) such that the second engaging device (42) is provided with a forward force to engage the front end of the second engaging device (42) with the first engaging device (23); the push button (43) is formed with a through hole (431) and provided with a first engaging portion (432) being disposed beneath the through hole; the second engaging device (23) passes through the push button (43) and abuts against the first elastic device (41); the second engaging device (42) is disposed with a second engaging portion (422) and a second elastic device (44) is disposed at the bottom of the push button (43) such that the push button (43) is provided with an upward force to engage the first engaging portion (432) with the second engaging portion (422).

IPC 8 full level
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B25G 1/063 (2013.01)

Cited by
CN103273461A; US11986927B2; WO2022146922A1; WO2023063834A1

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