

Title (en)
Single-handed actuated pliers

Title (de)
"Wasserpumpenzange mit Einhandbedienung"

Title (fr)
Pince actionnée à une main

Publication
EP 1050378 B1 20050622 (DE)

Application
EP 00107618 A 20000408

Priority
DE 29907864 U 19990503

Abstract (en)
[origin: US2003075026A1] Water pump pliers consisting of two pincer parts crossing themselves in a connecting region, each consisting of a handle portion and a jaw wherein said pincer parts are movably connected in said connecting region in such a way that said first pincer can be displaced relative to the second pincer to adjust a jaw opening-width on the one hand, and that the pincer parts with jaws can reciprocally pivot on the other hand. A blocking means is provided in such a manner that further shifting of the first pincer part is blocked when the jaws stop against a workpiece to be gripped. A spring element is installed between the pincer parts in such a way that a releasing force from the spring, operating in the opening direction of the jaws, acts upon the pincer parts. The spring element is designed and connected with the handle portions of the two pincer parts in such a way that the spring element, in addition to generating the releasing force, also acts upon the first pincer part with a torque directed around a spring fastening point in such a way that the jaws automatically move into a fully opened opening width following a manual release.

IPC 1-7
B25B 7/10

IPC 8 full level
B25B 7/10 (2006.01); **B25B 7/18** (2006.01); **B25G 1/10** (2006.01)

CPC (source: EP US)
B25B 7/10 (2013.01 - EP US); **B25B 7/18** (2013.01 - EP US); **B25G 1/105** (2013.01 - EP US)

Cited by
DE102010020655A1; TWI419771B

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AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 2003075026 A1 20030424; **US 6895840 B2 20050524**; AT E298276 T1 20050715; DE 29907864 U1 19990729; DE 50010586 D1 20050728; EP 1050378 A2 20001108; EP 1050378 A3 20030326; EP 1050378 B1 20050622; US 6497165 B1 20021224

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US 27933902 A 20021024; AT 00107618 T 20000408; DE 29907864 U 19990503; DE 50010586 T 20000408; EP 00107618 A 20000408; US 56411500 A 20000503