

Title (en)  
PUTTY KNIFE

Title (de)  
KITTMESSER

Title (fr)  
COUTEAU À MASTIC

Publication  
**EP 4137655 A1 20230222 (EN)**

Application  
**EP 22460036 A 20220811**

Priority  
PL 13022821 U 20210819

Abstract (en)  
A putty knife (1) including a metal blade (2) and a handle (3) placed inside a connector (4), wherein the connector (4) is an angle-adjusted, removable connection between the handle (3) and the fixing profile, in which the working blade (2) is placed. The connector (4) includes a support (6) connected with the flat fixing profile (5) for the blade (2) using connecting elements (8) provided as bolts with butterfly nuts, and in addition, the connector (4) has a socket (9.1) with an opening (10) for the connecting element (11) connecting the connector (4) and the handle (3). The support (6) is flat in the area where the fixing profile (5) of the blade (2) is fixed. The handle (3) is provided at the end with a socket (9.2) cooperating with the socket (9.2) of the connector (4) using a connecting element (11). The sockets (9.1, 9.2) include complementary radial protrusions (12) with a triangular cross-section at cooperating contact surfaces. The support (6) is provided with stiffening elements in the form of ribs (7) and an aperture (13) for insertion of the fixing profile (5). The fixing profile (5) for the blade (2) and the connector (4) include at least two cooperating openings (14) each.

IPC 8 full level  
**E04F 21/165** (2006.01); **B25G 1/06** (2006.01); **B25G 3/26** (2006.01); **B25G 3/38** (2006.01); **E04F 21/32** (2006.01)

CPC (source: EP)  
**B25G 1/06** (2013.01); **B25G 3/26** (2013.01); **B25G 3/38** (2013.01); **E04F 21/165** (2013.01); **E04F 21/32** (2013.01)

Citation (applicant)  
• FR 2969192 B1 20130118 - MONDELIN ROGER SAS [FR]  
• FR 3020389 A1 20151030 - MARQUARDT [FR]  
• WO 0032893 A1 20000608 - SCIACCA PHILLIP G [US]  
• EP 2471608 A1 20120704 - TOUPRET SA [FR]

Citation (search report)  
• [X] GB 2456613 A 20090722 - ELSHOURA ASHRAF HUSSEIN [GB]  
• [A] JP H11198063 A 19990727 - TOMAE MASA HARU  
• [A] CN 205742917 U 20161130 - WENZHOU KAIYU HARDWARE CO LTD  
• [A] US 2002078518 A1 20020627 - JIANG ZHEN-YUAN [TW]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

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**EP 4137655 A1 20230222**; **EP 4137655 B1 20240703**; PL 130228 U1 20230220; PT 4137655 T 20240927

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**EP 22460036 A 20220811**; PL 13022821 U 20210819; PT 22460036 T 20220811