

Title (en)
HAND TOOL WITH HANDLE

Title (de)
HANDWERKZEUG MIT GRIFF

Title (fr)
OUTIL MANUEL POURVU DE MANCHE

Publication
EP 4197702 A1 20230621 (DE)

Application
EP 21215720 A 20211217

Priority
EP 21215720 A 20211217

Abstract (en)
[origin: US2023193639A1] The invention pertains to a hand tool with a handle portion and a method for manufacturing the same.

Abstract (de)
Die Erfindung betrifft ein Handwerkzeug mit Griffbereich sowie ein Verfahren zu dessen Herstellung.

IPC 8 full level
B25G 1/10 (2006.01); **B25G 3/34** (2006.01); **E04F 21/16** (2006.01)

CPC (source: EP US)
B25G 1/10 (2013.01 - EP US); **B25G 3/34** (2013.01 - EP); **E04F 21/161** (2013.01 - EP US)

Citation (applicant)

- WO 2019167529 A1 20190906 - MARUTO HASEGAWA KOSAKUJO INC [JP]
- JP H116282 A 19990112 - IKEMOTO SEIICHI
- TW 418761 U 20010111 - HORNG SHIN COMPOSITE CO LTD [TW]

Citation (search report)

- [I] DE 202015103807 U1 20150807 - HERCULES SÄGEMANN GMBH [DE]
- [I] US 2008014412 A1 20080117 - HORTNAGL JOHANN [AT], et al
- [I] US 2019299372 A1 20191003 - LOWNIK MATTHEW A [US], et al
- [I] DE 9310980 U1 19930916 - GOTTWALD WALTER [DE]
- [I] US 8434188 B1 20130507 - JIMENEZ EDUARDO J [US], et al
- [A] DE 112016004611 T5 20180628 - DU PONT [US]
- [A] US 6247204 B1 20010619 - HAMBY MIKE [US], et al
- [A] IT 201900018095 A1 20210407 - GRUPPO STAMPLAST S P A [IT]
- [A] US 9891019 B2 20180213 - HAAS MATTHEW PETER [US], et al
- [A] US 2014083260 A1 20140327 - KUNDRACIK RICHARD M [US], et al

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

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KH MA MD TN

DOCDB simple family (publication)
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DOCDB simple family (application)
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