

Title (en)
PULLER

Title (de)
ABZIEHVORRICHTUNG

Title (fr)
EXTRACTEUR

Publication
EP 3988247 A1 20220427 (EN)

Application
EP 21203325 A 20211019

Priority
DE 202020105976 U 20201020

Abstract (en)
A puller includes a collar, claws, a synchronizer and a threaded rod. The collar includes a space, a screw hole in communication with the space, slots in communication with the space, and pivotal connectors located corresponding to the slots. The claws are pivotally connected to the pivotal connectors. Each of the claws includes a protuberance movable in and along a corresponding one of the slots. The synchronizer includes a receiving portion for receiving the protuberances. The synchronizer is movable in the collar between an opening position and a closing position. In the opening position, the synchronizer opens the claws by the protuberances. In the closing position, the synchronizer closes the claws by the protuberances. The threaded rod is inserted in the screw hole of the collar.

IPC 8 full level
B25B 27/02 (2006.01)

CPC (source: EP)
B25B 27/023 (2013.01)

Citation (search report)

- [XY] US 2008222867 A1 20080918 - ROBARGE RANDALL P [US]
- [Y] DE 102014107066 A1 20151119 - POUL CHANG METAL INDUSTRY CO [TW]
- [Y] EP 2241406 A2 20101020 - CHEN YU-CHEN [TW]
- [Y] GB 2576583 A 20200226 - BO CHEN HUNG CO LTD [TW]
- [A] US 5419027 A 19950530 - MCPEAK THOMAS J [US], et al
- [A] SU 1430252 A1 19881015 - SIB TS OK T B GVNII REMONTA EK [SU]

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

DOCDB simple family (publication)
DE 202020105976 U1 20210127; EP 3988246 A1 20220427; EP 3988247 A1 20220427; TW 202216386 A 20220501;
TW 202406691 A 20240216; TW I840681 B 20240501

DOCDB simple family (application)
DE 202020105976 U 20201020; EP 21194811 A 20210903; EP 21203325 A 20211019; TW 110124083 A 20210630; TW 112138736 A 20210630