

Title (en)
METHOD OF MACHINING SEVERAL WORKPIECE BLANKS WITH A MACHINE TOOL AND A SET OF CUSTOMIZED SUPPORTS FOR THE METHOD THEREOF

Title (de)
VERFAHREN ZUR BEARBEITUNG MEHRERER WERKSTÜCKKROHLINGE MIT EINER WERKZEUGMASCHINE UND EIN SATZ VON SPEZIFISCHEN TRÄGERN FÜR DAS VERFAHREN DAFÜR

Title (fr)
PROCÉDÉ D'USINAGE DE PLUSIEURS ÉBAUCHES DE PIÈCES À L'AIDE D'UNE MACHINE-OUTIL ET D'UN ENSEMBLE DE SUPPORTS PERSONNALISÉS POUR LEDIT PROCÉDÉ

Publication
EP 4094888 A1 20221130 (EN)

Application
EP 21176447 A 20210528

Priority
EP 21176447 A 20210528

Abstract (en)
The invention relates to a set of customized supports (10a, 10b, 10c) for supporting workpiece blanks (20a, 20b, 20c) of different diameters. Each customized support (10a, 10b, 10c) is adapted to be hold by a same mounting support (40) aligned with a spindle (112) of a machine tool (110) or to respective mounting support (40a, 40b, 40c) to be aligned with said spindle (112). Each customized support (10a, 10b, 10c) has a supporting surface (11) for supporting a portion of a workpiece blank (20a, 20b, 20c) during machining, wherein the shape and/or dimensions of said supporting surface (11) is different between each customized support (10a, 10b, 10c) of the set of customized supports so as to offset the difference in diameter between different workpiece blanks (20a, 20b, 20c) having different diameter such that a portion of a workpiece blank to be machined is always supported by a customized support (10a, 10b 10c) when mounted on the same mounting support (40) of the machine tool (110) or by a customized support (10a, 10b 10c) of respective mounting support (40a, 40b, 40c) without requiring any height adjustment of the mounting support (40; 40a, 40b, 40c). The invention also relates to a method of machining several workpiece blanks using the set of customized supports (10a, 10b, 10c) and to a machine tool (50) adapted to perform the method.

IPC 8 full level
B24B 5/22 (2006.01); **B24B 5/307** (2006.01); **B24B 41/06** (2012.01)

CPC (source: EP)
B24B 5/22 (2013.01); **B24B 5/307** (2013.01); **B24B 41/066** (2013.01); **B24B 41/067** (2013.01)

Citation (search report)
[X] EP 2030727 A1 20090304 - ROLLOMATIC SA [CH]

Cited by
CN116117521A

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

DOCDB simple family (publication)
EP 4094888 A1 20221130

DOCDB simple family (application)
EP 21176447 A 20210528