

Title (en)

METHOD AND ROLLING DIE FOR PRODUCING A SCREW HAVING A VARIABLE THREAD PITCH

Title (de)

VERFAHREN UND WALZBACKEN ZUR HERSTELLUNG EINER SCHRAUBE MIT VERÄNDERLICHER GEWINDESTEIFUNG

Title (fr)

PROCÉDÉ ET MÂCHOIRE DE LAMINAGE POUR FABRIQUER UNE VIS À PAS VARIABLE

Publication

EP 2367645 B1 20121114 (DE)

Application

EP 11701451 A 20110114

Priority

- EP 2011000154 W 20110114
- DE 102010000084 A 20100114

Abstract (en)

[origin: WO2011085999A1] The invention relates to a method for producing a screw (26) having a continuous thread (28) of variable thread pitch, wherein a blank (16) is rolled between two rolling dies (24), wherein a roller profile is implemented in each rolling die, comprising a group of curved, non-parallel recesses (34). The recesses (34) are implemented and arranged so that zero or as little as possible volume transport takes place in the axial direction during rolling, or a volume transport from an area of the blank at which a thread segment having greater thread pitch is to be implemented, into an area in which a thread segment having a smaller thread pitch is to be implemented.

IPC 8 full level

B21H 3/06 (2006.01)

CPC (source: EP US)

B21H 3/06 (2013.01 - EP US)

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

DOCDB simple family (publication)

WO 2011085999 A1 20110721; CA 2786923 A1 20110721; DE 102010000084 A1 20110721; EP 2367645 A1 20110928; EP 2367645 B1 20121114; ES 2397625 T3 20130308; MX 2012008224 A 20120817; PL 2367645 T3 20130329; US 2012309548 A1 20121206; US 9017176 B2 20150428

DOCDB simple family (application)

EP 2011000154 W 20110114; CA 2786923 A 20110114; DE 102010000084 A 20100114; EP 11701451 A 20110114; ES 11701451 T 20110114; MX 2012008224 A 20110114; PL 11701451 T 20110114; US 201213548790 A 20120713