

Title (en)
METHOD FOR PRODUCING STRIP-SHAPED INPUT STOCK, ESPECIALLY FROM METAL, WHICH IS PROFILED IN SUBSEQUENT SECTIONS, AND CORRESPONDING DEVICE

Title (de)
VERFAHREN ZUM HERSTELLEN EINES BANDFÖRMIGEN VORMATERIALS, INSBESONDERE AUS METALL, WELCHES IN AUFEINANDERFOLGENDEN ABSCHNITTEN PROFILIERT IST, UND EINE VORRICHTUNG DAFÜR

Title (fr)
PROCEDE DE FABRICATION D'UN PRODUIT DE DEPART EN FORME DE BANDE, NOTAMMENT EN METAL, PROFILE PAR SECTIONS SUCCESSIVES, ET DISPOSITIF Y RELATIF

Publication
EP 1332011 A1 20030806 (DE)

Application
EP 01982471 A 20011108

Priority
• DE 10056804 A 20001111
• DE 10134285 A 20010714
• EP 0112927 W 20011108
• US 43531003 A 20030509

Abstract (en)
[origin: WO0238305A1] The invention relates to a method for producing strip-shaped input stock, especially from metal, which is profiled in subsequent sections either on one side or on both sides, by rolling a metal strip in one or more rolling steps. The method is characterized by carrying out the following steps: (a) tensioning the metal strip (16), (b) positioning the metal strip (16) in a rolling gap (13) that is defined by a roller (12) and a movable plate (67) relative the roller (12), and (c) positioning the plate (67) relative the roller (12). Steps (b) and (c) are successively or simultaneously carried out or are carried out in a timewise overlapping manner or in a successive inverse order, and step (c) can also be carried out before step (a). The method is further characterized by (d) grooving the metal strip (16) with the roller (12) by reducing the distance of the peripheral surface of the roller (12) to the metal strip (16), the metal strip (16) being maintained steady or being moved only slowly at least during the begin of the grooving, and the roller (12) being rotated not at all or only very slowly so that the metal strip (16) remains under tensile stress in the rolling gap (13), (e) rolling a section of the metal strip (16) in the rolling gap (13) by rotating the roller (12) and moving or catching the plate (67) in synchronicity in a rectilinear manner, and (f) releasing the metal strip (16) by opening the rolling gap (13). Steps (b) to (f) are repeated for every section of the metal strip (16) to be profiled.

IPC 1-7
B21H 8/00; **B21C 37/02**; **B29C 59/04**

IPC 8 full level
B21C 37/02 (2006.01); **B21H 8/00** (2006.01); **B21B 1/32** (2006.01); **B21B 1/42** (2006.01); **B21B 13/00** (2006.01); **B21B 31/24** (2006.01); **B21B 37/54** (2006.01)

CPC (source: EP US)
B21C 37/02 (2013.01 - EP US); **B21H 8/00** (2013.01 - EP US); **B21B 1/32** (2013.01 - EP US); **B21B 1/42** (2013.01 - EP US); **B21B 13/00** (2013.01 - EP US); **B21B 31/24** (2013.01 - EP US); **B21B 37/54** (2013.01 - EP US)

Citation (search report)
See references of WO 0238305A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 0238305 A1 20020516; AU 1404402 A 20020521; EP 1332011 A1 20030806; EP 1332011 B1 20050615; US 2004221635 A1 20041111

DOCDB simple family (application)
EP 0112927 W 20011108; AU 1404402 A 20011108; EP 01982471 A 20011108; US 43531003 A 20030509