

Title (en)  
FLANGING METHOD FOR APPLICATION OF A FLANGED EDGE TO A WORKPIECE BY ROLL FOLDING COMPRISING AT LEAST TWO FOLDING STEPS

Title (de)  
BÖRDELVERFAHREN ZUM UMLEGEN EINER BÖRDELKANTE EINES WERKSTÜCKS DURCH ROLLFALZEN MIT WENIGSTENS ZWEI FALZSCHRITTEN

Title (fr)  
METHODE DE SERTISSAGE POUR LE RABATTEMENT D'UN BORD A SERTIR D'UNE PIECE PAR REPLIAGE A ROULEAUX AVEC AU MOINS DEUX ETAPES DE PLIAGE

Publication  
**EP 1420907 A1 20040526 (DE)**

Application  
**EP 02767231 A 20020719**

Priority  
• DE 10142686 A 20010831  
• EP 0208036 W 20020719

Abstract (en)  
[origin: WO03018227A1] The invention relates to a flange device (1), for production of a flanged edge (2) to a workpiece (3, 4), by roll folding, with at least two folding steps. An articulated arm robot has one robot arm to which a machine unit (9) is connected. A folding roller (10), in the form of a pressure roller is rotatably mounted on the controlled, moving machine unit (9), which may be rolled along in contact with the flanged edge (2), applying pressure at a set angular position for production thereof. A support element (11), arranged opposite the flanged edge, is further provided for the folding roller (10). According to the invention, the support element (11), rotatably mounted on the machine unit (9) in the form of a support roller, in the region of the folding roller (10), comprises a support roller edge (16) around the circumference thereof, which may be rolled along the folding line (22) of the flanged edge (2) as support for the positionally-accurate formation thereof, at least during the first folding step.

IPC 1-7  
**B21D 39/02**

IPC 8 full level  
**B21D 39/02** (2006.01)

CPC (source: EP)  
**B21D 39/021** (2013.01); **B21D 39/023** (2013.01)

Citation (search report)  
See references of WO 03018227A1

Cited by  
DE102009060227B4; EP3459410A1; DE102009060227A1

Designated contracting state (EPC)  
DE ES FR GB

DOCDB simple family (publication)  
**WO 03018227 A1 20030306**; DE 10142686 A1 20030320; DE 50209443 D1 20070322; EP 1420907 A1 20040526; EP 1420907 B1 20070207; ES 2278957 T3 20070816

DOCDB simple family (application)  
**EP 0208036 W 20020719**; DE 10142686 A 20010831; DE 50209443 T 20020719; EP 02767231 A 20020719; ES 02767231 T 20020719