

Title (en)
DEVICE AND METHOD FOR HEMMING PROCESSING

Title (de)
VORRICHTUNG UND VERFAHREN ZUM FALZVERBINDEN

Title (fr)
DISPOSITIF ET PROCEDE DE TRAITEMENT D'OURLAGE

Publication
EP 1445043 A1 20040811 (EN)

Application
EP 02768145 A 20021004

Priority
• JP 0210390 W 20021004
• JP 2001335397 A 20011031

Abstract (en)
For example, in hemming processing that is performed along the peripheries of an automobile door panel, conventionally, a bent portion of the panel formed by flanging processing is previously bent at an angle of approximately 45 DEG , and then is finally bent by changing a posture of a bending roller and rolling thereto again. Therefore, it is difficult to shorten time for hemming processing. It is one object of the present inventions to complete hemming processing in only one rolling step, to thereby reduce working time for hemming processing. <??>Therefore, the invention is constructed such that a bending roller R rolls on a bent portion We in a posture that an axis of rotation R3 of the bending roller is rearwardly inclined relative to a normal line R2 perpendicular to a rolling direction R1 at a side of a folded edge Wee of the bent portion in a plan view. According to this construction, because the bent portion We is bent while a side pressure in a bending direction is applied thereto, the bent portion We can be bent to a folded state in one bending step. <IMAGE>

IPC 1-7
B21D 39/02; **B21D 19/04**; **B21D 19/08**

IPC 8 full level
B21D 19/08 (2006.01); **B21D 39/02** (2006.01); **B21D 53/88** (2006.01)

CPC (source: EP KR US)
B21D 39/02 (2013.01 - KR); **B21D 39/021** (2013.01 - EP US); **B21D 39/023** (2013.01 - EP US)

Cited by
EP2108466A3; DE102006028833A1; DE102006010469A1; US8302444B2; WO2007147692A1; US8272243B2; US8914964B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
US 2004035172 A1 20040226; CN 1525891 A 20040901; EP 1445043 A1 20040811; EP 1445043 A4 20060802; JP 2003136161 A 20030514; JP 3623474 B2 20050223; KR 20040038890 A 20040508; WO 03037541 A1 20030508

DOCDB simple family (application)
US 39842003 A 20030407; CN 02802756 A 20021004; EP 02768145 A 20021004; JP 0210390 W 20021004; JP 2001335397 A 20011031; KR 20037004105 A 20030321