Title (en)

DEVICE FOR ROUNDING AND CONVEYING ON SHEET BLANKS FOR CAN SHELLS

Publication

EP 0413955 A3 19910410 (DE)

Application

EP 90113603 A 19900716

Priority

CH 304489 A 19890822

Abstract (en)

[origin: US5120177A] A sheet-metal blank (10) can be moved through between first and second bending rolls (24, 25). Disposed behind the bending rolls (24, 25) in its direction of movement (12) is a deflecting member (28) by which the sheet-metal blank (10) can be deflected away from the first bending roll (24) and round the second bending roll (25) out of its original direction of movement (12). In order to catch the edge of the sheet-metal blank (10) which was leading in the original direction of movement (12), a catch ledge (29) is disposed at the side of the second bending roll (25) remote from the first bending roll (24) and at least substantially in the common plane of the axes of the two bending rolls (24, 25). The catch ledge (29) is a component of a guide rail (30) on which the rounded sheet-metal blank (10) is guided with its longitudinal edges lying close beside one another during a further axial movement. The guide rail (30) extends at least substantially over the whole length of the two bending rolls (24, 25) and is arranged in such a manner that it is encircled by the sheet-metal blank (10) during the bending of the blank.

IPC 1-7

B21D 51/26

IPC 8 full level

B23K 13/00 (2006.01); **B21D 5/14** (2006.01); **B21D 51/26** (2006.01); **B23K 11/08** (2006.01)

CPC (source: EP KR US)

B21D 51/26 (2013.01 - KR); **B21D 51/2676** (2013.01 - EP US)

Citation (search report)

- [AD] DE 3330171 A1 19840223 - FMI MECFOND AZIENDE MECC [IT]
- [A] EP 0289745 A2 19881109 - ELPATRONIC AG [CH]
- [A] EP 0205992 A2 19861230 - ELPATRONIC AG [CH]
- [A] DE 2319447 B2 19750403

Designated contracting state (EPC)

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DOCDB simple family (publication)

US 5120177 A 19920609; AT E88388 T1 19930515; BR 9004127 A 19910903; CH 680714 A5 19921030; CN 1020684 C 19930519; CN 1051875 A 19910605; CS 9003865 A2 19911015; CZ 282348 B6 19970716; DE 3928940 A1 19910228; DE 3928940 C2 19920716; DE 3928959 C1 19900809; DE 4023157 A1 19910228; DE 4023157 C2 19920716; DE 59001240 D1 19930527; DK 169658 B1 19950109; DK 192190 A 19910223; DK 192190 D0 19900813; EP 0413955 A2 19910227; EP 0413955 A3 19910410; EP 0413955 B1 19930421; ES 2041084 T3 19931101; FI 904097 A0 19900820; JP H0394919 A 19910419; JP H0734938 B2 19950419; KR 910004267 A 19910328; KR 930007072 B1 19930729; SU 1831397 A3 19930730

DOCDB simple family (application)

US 55793590 A 19900725; AT 90113603 T 19900716; BR 9004127 A 19900821; CH 304489 A 19890822; CN 90107136 A 19900822; CS 386590 A 19900806; DE 3928940 A 19890831; DE 3928959 A 19890831; DE 4023157 A 19900720; DE 59001240 T 19900716; DK 192190 A 19900813; EP 90113603 A 19900716; ES 90113603 T 19900716; FI 904097 A 19900820; JP 21914890 A 19900822; KR 900012866 A 19900821; SU 4830793 A 19900821