

Title (en)

Method and machine for the production of polygonal boxes from sheet material and boxes obtained thereby.

Title (de)

Verfahren und Maschine für die Herstellung von polygonalen Schachteln aus Bogenmaterial und daraus hergestellte Schachtel.

Title (fr)

Procédé et machine pour la réalisation de caisses à section polygonale en une matière en feuille et caisses ainsi obtenues.

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Application

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Abstract (en)

Method and machine for the production of a polygonal box from a blank (1) of sheet material comprising a set of panels (2, 3, 4, 5). <??>According to the invention: - the said set of panels (2 to 5) is rolled about a mandrel having a polygonal cross section; - the tongue (9) is fixed to the free edge (19) of the end panel (5); - the flaps (11.2 to 11.5) on the same side as the said panels (2 to 5) are folded; and - the said flaps (11.2 to 11.5) thus folded are fixed to each other. <??>Manufacture of American boxes. <IMAGE>

Abstract (fr)

Procédé et machine pour la réalisation d'une caisse à section polygonale à partir d'un flan (1) de matière en feuille comportant un ensemble de volets (2,3,4,5). Selon l'invention : - on enroule ledit ensemble de volets (2 à 5) autour d'un mandrin à section polygonale ; - on fixe la languette (9) au bord libre (19) du volet extrême (5) ; - on replie les rabats (11.2 à 11.5) se trouvant d'un même côté desdits volets (2 à 5) ; et - on fixe les uns aux autres lesdits rabats (11.2 à 11.5) ainsi repliés. Fabrication de caisses américaines.

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Citation (search report)

- [A] US 4308020 A 19811229 - LANGEN MARINUS J M
- [A] US 4242949 A 19810106 - AUCKENTHALER ROBERT
- [A] GB 190775 A 19221221 - LOUIS CHAMBON
- [A] DE 3541821 A1 19870604 - BOSCH GMBH ROBERT [DE]
- [A] FR 1051421 A 19540115 - PNEUMATIC SCALE CORP
- [A] DE 1059830 B 19590618 - ZD Y V I
- [A] US 2171418 A 19390829 - PALMER FRANK D
- [A] US 2168543 A 19390808 - VERGOBBI JOHN G

Cited by

US11097504B2; CN105383089A; US5704540A; EP0406183A1; FR2899873A1; EP0965441A1; EP0468860A1; FR2665137A1; FR2665421A1; US5160307A; EP0549837A1; WO2018069618A1; WO2018069614A1; WO2007116150A3; US8430296B2; US9662851B2; WO2018069647A2

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