

Title (en)
ADJUSTABLE FOLDING MACHINE

Publication
EP 0221356 B1 19890816 (DE)

Application
EP 86113625 A 19861002

Priority
DE 3538755 A 19851031

Abstract (en)
[origin: EP0221356A1] 1. A folding machine for the folding of large sized cardboard blanks (47) consisting of heavy corrugated pasteboard or solid-fibre board, the machine having : flat supports which are retained in a frame (3), bear a blank previously introduced by a conveying device until it abuts stops attached to the frame and is aligned, act as an abutment for such blank during folding, and are disposed alongside the edges to be folded and extend parallel therewith ; strip-shaped flat folding bars (6, 7) which are disposed above the supports and bring the blank into contact pressure therewith and whose inlet side ends, referred to the conveying path of the blank, are connected to two double action lifting devices (8) attached to the frame, and with whose outlet side ends fixing devices (9) to be actuated at choice are associated which have contact pressure surfaces (25) applicable to the rear side of the folding bar (6, 7) ; and folding arms (41, 42) which are pivotably mounted in the frame alongside the supports and via which the side portions of the blank situated between the supports (4, 5) and the folding bars (6, 7) can be folded over towards one another through about 180 degrees along the folding lines, the folding bars being prestressed by the lifting device (8) and the fixing device (9) in the direction of the associated supports, to hold down the blank during the folding operation, characterized in that the fixing devices (9) are retained on the frame (3) with provision for adjustment along the folding bars (6, 7) ; the continuous supports (4, 5), above which the folding bars (6, 7) and the contact pressure surfaces (25) are disposed, extend beyond the contact pressure surfaces (25) in every position of the fixing devices (9), referred to the conveying direction of the blank (47) ; and the contact pressure surfaces (25) are constructed smooth and free from projections, so that when a contact pressure surface (25) bears against the rear side of the associated folding bar (6, 7), only frictional connection takes place.

IPC 1-7
B31B 1/56; B65H 37/06; B65H 45/12

IPC 8 full level
B31B 50/56 (2017.01); **B65H 37/06** (2006.01); **B65H 45/12** (2006.01)

CPC (source: EP)
B65H 37/06 (2013.01); **B65H 45/12** (2013.01)

Citation (examination)
DE 3234821 A1 19840322 - BAHMUELLER MASCH W [DE]

Cited by
US5520693A; KR101270567B1

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0221356 A1 19870513; EP 0221356 B1 19890816; AT E45556 T1 19890915; DE 3538755 A1 19870507; DE 3665052 D1 19890921; ES 2011000 B3 19891216; GR 3000125 T3 19901129

DOCDB simple family (application)
EP 86113625 A 19861002; AT 86113625 T 19861002; DE 3538755 A 19851031; DE 3665052 T 19861002; ES 86113625 T 19861002; GR 890400136 T 19890817