Title (en)

AUTOMATED MACHINE TO FOLD IN A ZIGZAG MANNER AND STACK A CREASED TAPE MADE OF A SUFFICIENTLY RIGID MATERIAL

Title (de)

AUTOMATISIERTE MASCHINE ZUM FALTEN IN ZICKZACK-ART UND ZUM STAPELN EINES GEFALTETEN BANDES AUS EINEM AUSREICHEND STEIFEN MATERIAL

Title (fr)

MACHINE AUTOMATIQUE POUR PLIER EN ZIGZAG ET EMPILER UNE BANDE PLISSÉE CONSTITUÉE D'UN MATÉRIAU SUFFISAMMENT RIGIDE

Publication

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Application

EP 13720014 A 20130305

Priority

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Abstract (en)

[origin: WO2013132325A1] Automated machine to fold in a zigzag manner and stack a creased tape (11) made of a sufficiently rigid material and provided with a plurality of transverse creasings (12) equidistant with respect to each other, comprising feed means (15) suitable to feed the creased tape (11) in a determinate direction of feed toward a folding device (20) of the rotary type suitable to fold it in a zigzag manner and to convey it toward collection means (50). The folding device (20) comprises four parallel pairs of main arms (21-24), having the same length and disposed in a cross, which rotate in a direction of rotation consistent with the direction of feed of the creased tape (11) around a central axis of rotation (Z) perpendicular to the latter, four corresponding parallel pairs of secondary arms (31-34), pivoted to the peripheral ends of the main arms (21-24), toward the inside thereof and rotatable in an opposite direction to the latter, and four folding rods (41-44) pivoted to the peripheral ends of the secondary arms (31-34), so that each of the four folding rods (41-44) is suitable to describe in space a substantially elliptical trajectory (T). The folding rods (41-44) are suitable to intercept the creased tape (11) in correspondence to every two of the transverse creasings (12). The major axis (X) of the trajectory (T) is substantially horizontal and the central stacking axis (W) of the collection means (50) is substantially vertical and parallel to the minor axis (Y) of the trajectory (T).

IPC 8 full level

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CPC (source: EP RU US)

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