

Title (en)

Method and device for changing the gripping position of flat objects, conveyed by grippers

Title (de)

Verfahren und Einrichtung zum Umgreifen von mit Greifern gehalten geförderten, flachen Gegenständen

Title (fr)

Procédé et dispositif pour changer la position de saisie des objets plats, convoyés par des pinces

Publication

**EP 1227052 B1 20040811 (DE)**

Application

**EP 02405029 A 20020118**

Priority

CH 1212001 A 20010124

Abstract (en)

[origin: CA2368735A1] Flat articles (3) each held by a feeding-in gripper (5) on a leading first edge are fed-in to a hold changing station (1) one after the other, are pulled onto a changing support situated in the changing station (1) and are deposited on it by opening the feeding-in gripper (5). Each deposited article is then pushed across the changing support (10) by a conveying-away gripper (6) and while being pushed is grasped by closing the conveying-away gripper (6) and is conveyed away held gripped on a second edge. Advantageously the feeding-in direction (Z) and the conveying-away direction (W) intersect above the changing support (10) under the one angle (a), which is also constituted by the first and the second edge. For the hold change of rectangular printed products, the angle (a) amounts to 90.degree.. For pushing the articles, the conveying-away grippers (6) move in the plane of the surface of the changing support and are driven from below. For articles (3) which overlap one another on being fed-in; the feeding-in grippers (5) move above the surface of the changing support (10) and are driven from above. The hold changing operation can be implemented with simpler means than known hold changing operations. Nonetheless the security and the accuracy, with which the change is carried out are satisfactory for most requirements.

IPC 1-7

**B65H 29/04**

IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

US 4471953 A 19840918 - REIST WALTER [CH], et al

Cited by

EP2390214A1; EP2962966A1; EP2243734A1; AU2010201530B2; AU2010201530A8; US8167112B2; EP3208213A1

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