

## Title (en)

Machine for setting up, holding and transferring cardboard packing boxes.

## Title (de)

Maschine zum Aufrichten, Festhalten und Vorschieben von Verpackungsschachteln aus Pappe.

## Title (fr)

Machine pour la mise en volume, le maintien et le transfert de corps d'emballage en carton.

## Publication

**EP 0122174 A1 19841017 (FR)**

## Application

**EP 84400466 A 19840308**

## Priority

FR 8303867 A 19830309

## Abstract (en)

1. A machine for assembling packaging bodies of cardboard or the like, of the type comprising a magazine (12) in which the packaging bodies (10) are arranged in a pile in the flattened state, a suction extraction system (14) intended successively to extract the packaging bodies at the lower part of the magazine, a first chain-conveyor (26) arranged under the magazine and equipped with drive means (50) spaced out at regular intervals along the conveyor, and a second chain-conveyor (28) arranged parallel to the first conveyor and whose upper portions are situated between and in the same plane as those of the first conveyor and are fitted with stops (86) separated by uniform intervals (d) equal to those which exist between the drive members (50) of the first conveyor (26), the chains of the first and second conveyors rolling at their downstream end around sprocket wheels (38a, 38b and 62a, 62b) carried by a common drive shaft (38c) driven step-by-step by a motor (42), said sprocket wheels being manually adjustable so that the space (1) between each drive member (50) of the first conveyor and the stop (86) of the second conveyor which immediately precedes this drive member (50) in the direction of travel of the first and second conveyors (26, 28) is equal to the length of the lower panel (18b) of the packaging body, characterized in that the motor (42) is driven step-by-step by a photo-electric cell (21) capable of stopping the motor each time a drive member (50) is positioned approximately in the vertical plane defined by the rear transverse wall (22a, 22b) of the magazine.

## Abstract (fr)

L'invention concerne une machine pour la mise en volume d'un corps d'emballage en carton. La machine comprend un magasin (12) dans lequel les corps d'emballage (10) sont disposés à l'état aplati, un système d'extraction (14), un premier et un second convoyeurs à chaînes (26, 28) disposés parallèlement et dans le même plan sous le magasin et qui sont respectivement équipés de barres d'entraînement (50) et de butées (86). Les chaînes (32a, 32b) du premier convoyeur s'enroulent à leur extrémité aval autour de pignons (38a, 38b) calés sur un arbre moteur (38c), tandis que les chaînes (34a, 34b) du second convoyeur s'enroulent autour de pignons (62a, 62b) montés tournant fous autour dudit arbre moteur, et qui peuvent être solidarisés de ce dernier au moyen d'un mécanisme d'accouplement déconnectable (70, 72).

## IPC 1-7

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## IPC 8 full level

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## CPC (source: EP)

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## Citation (search report)

- [AD] FR 1453183 A 19660415 - UNILEVER NV
- [A] US 3037431 A 19620605 - LEONARD MCGIHON
- [A] US 3040634 A 19620626 - GALLOWAY ROBERT K
- [A] FR 1469645 A 19670217 - R A JONES & COMPANY INC
- [A] US 4254604 A 19810310 - VOGEL WALTER H, et al
- [A] GB 1489799 A 19771026 - PORTION PACKAGING LTD
- [A] US 3138076 A 19640623 - LOBDELL HARRY R

## Cited by

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