

Title (en)

Cutting device for wiping material stored in an automatic apparatus dispensing it in a thin concertina-folded strip.

Title (de)

Schneidevorrichtung für Aufwischmaterial, das ein Apparat automatisch als einen schmalen akkordeonförmig gefalteten Streifen abgibt.

Title (fr)

Dispositif de coupe de matériaux d'essuyage stockés dans un appareil assurant leur distribution automatique sous la forme d'une bande étroite pliée en accordéon.

Publication

EP 0385894 A1 19900905 (FR)

Application

EP 90420108 A 19900301

Priority

FR 8903416 A 19890303

Abstract (en)

[origin: JPH0347217A] PURPOSE: To make it possible to cut a material strip easily and in a shearing fashion by devising the metal blades so that they gradually come to an overlap with each other from one end to the other and during a period of turning and that they are kept substantially on a parallel position with the turning axis of the gear pairs throughout the cutting operation. CONSTITUTION: Since while the two blades 5, 6 are normally faced to each other, the cutting edge of the blade 6 gets a contact or near-contact with the cutting edge of the blade 5, the blade ends at the sides of gears 1, 3 overlap with each other. The projection 5b of the blade 5 then gets a contact with the recess 11a of the connecting rod 11. Since the hinge pin 12 position is correctly calculated, the connecting rod 11 is forcibly pressed onto the blade 5 turned by a force manually pulling its projected strip, thus, being turned against the spring 13, and when the protrusion 5b of the blade 5 touches, it is held in line with the axis, supporting the driven blade 6 as well. The spring for the blade 5 is calibrated so as to add a pressure onto the blade 6 during a period of cutting. This cuts progressively the strip via the warped profile of the blades from one end up to the other end.

Abstract (fr)

Le dispositif de coupe de matériaux d'essuyage stockés dans un appareil assurant leur distribution automatique sous la forme d'une bande étroite pliée en accordéon est remarquable en ce qu'il est constitué par deux lames métalliques profilées à bord tranchant (5 et 6) montés à articulation élastique entre deux couples (1-2) et 3-4) d'entraînement du matériau plié, en un point déterminé pour que par rotation desdits couples les lames se superposent progressivement d'une extrémité à l'autre, au fur et à mesure de la rotation en restant en contact permanent et en position sensiblement parallèle aux axes de rotation des couples de roues dentées pendant toute la durée de la coupe pour trancher par cisaillement la bande pliée du matériau introduite entre lesdits couples et entraînée par traction manuelle sur la bande débordant de l'appareil provoquant la rotation des couples.

IPC 1-7

A47K 10/34

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [A] US 2560061 A 19510710 - AGAMAITE JR EDWARD
- [A] CH 576776 A5 19760630 - BUDMIGER HERMANN
- [A] US 2873965 A 19590217 - MITCHELL JOHN G
- [A] GB 2084626 A 19820415 - PLESSEY THE CO & LTD
- [ED] FR 2630417 A1 19891027 - GRANGER MAURICE [FR]
- [ED] FR 2632292 A2 19891208 - GRANGER MAURICE [FR]

Cited by

CN106944964A; EP0629372A1; FR2667854A1

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