

Title (en)

Method and apparatus for seizing a moved flat product

Title (de)

Verfahren und Vorrichtung zum Ergreifen eines bewegten flachen Produkts

Title (fr)

Procédé et dispositif pour la prise d'un produit plat en déplacement

Publication

EP 1288151 A3 20030813 (DE)

Application

EP 02016269 A 20020723

Priority

US 94195601 A 20010828

Abstract (en)

[origin: US2003042747A1] A gripper assembly for a deceleration/acceleration drum is described which includes a pivot arm with a gripper seat and a gripper bar with a gripper and a pin assembly. The assembly further includes a first toggle link supported by the pivot arm about a first pivot point, the gripper bar is able to partially rotate about the first toggle link about a second pivot point. The assembly also includes a second toggle link supported by the pivot arm which supports the pin assembly of the gripper bar.

IPC 1-7

B65H 29/06

IPC 8 full level

B65H 5/12 (2006.01); **B65H 5/08** (2006.01); **B65H 5/14** (2006.01); **B65H 29/06** (2006.01)

CPC (source: EP US)

B65H 5/14 (2013.01 - EP US); **B65H 29/06** (2013.01 - EP US); **B65H 2301/4474** (2013.01 - EP US); **B65H 2405/531** (2013.01 - EP US); **B65H 2513/10** (2013.01 - EP US); **B65H 2701/1311** (2013.01 - EP US)

C-Set (source: EP US)

1. **B65H 2301/4474** + **B65H 2220/01**
2. **B65H 2301/4474** + **B65H 2220/02**
3. **B65H 2513/10** + **B65H 2220/02**

Citation (search report)

- [X] US 4629175 A 19861216 - FISCHER EMIL [DE], et al
- [XA] US 4132403 A 19790102 - WEISBACH GUNTER, et al
- [X] US 2794637 A 19570604 - RUGG GORDON S
- [DXA] DE 19733694 A1 19980305 - HEIDELBERGER DRUCKMASCH AG [DE]
- [X] US 6132121 A 20001017 - BRINGS BERNHARD [DE], et al
- [A] DE 19927946 A1 20010125 - BELL & HOWELL CO [DE]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

US 2003042747 A1 20030306; **US 6547297 B2 20030415**; AT E374157 T1 20071015; DE 10233505 A1 20030417; DE 50210962 D1 20071108; EP 1288151 A2 20030305; EP 1288151 A3 20030813; EP 1288151 B1 20070926; JP 2003104584 A 20030409; JP 4072025 B2 20080402; US 6511065 B1 20030128

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US 23507202 A 20020905; AT 02016269 T 20020723; DE 10233505 A 20020724; DE 50210962 T 20020723; EP 02016269 A 20020723; JP 2002243167 A 20020823; US 94195601 A 20010828