

Title (en)

Sheet set separation using folded strips.

Title (de)

Vorrichtung zum Trennen eines Blättersatzes mittels gefaltete Bänder.

Title (fr)

Dispositif pour séparer un ensemble de feuilles au moyen de bandes pliées.

Publication

EP 0493109 A1 19920701 (EN)

Application

EP 91312009 A 19911224

Priority

- US 63280590 A 19901224
- US 63634290 A 19901231

Abstract (en)

Apparatus and a method are disclosed for associating a strip (33) with a set (16) of stacked sheets. The strip (33) which may be paper tape, is positioned intersecting a path (24) along which a set (16) of sheets such as paper sheets is advanced. The sheet set (16) is advanced towards the strip (33) so that the downstream edge (38) of the sheet set engages the strip (33) with portions of the strip (33) extending substantially beyond opposed major sides of the sheet set. The strip (33) is then folded at least once to the sheet set (16) adjacent the downstream edge (38) of the sheet set (16) with the strip portions extending generally adjacent the major sides of the sheet set (16). The strip (33) is folded by advancing the sheet set (16) and the strip (33) through a nip (60). The strip (33) is indexed from a roll (34) to the position in the path (24) of the sheet set (16). The strip (33) is tensioned and is drawn against a knife edge (178) as the sheet set (16) advances through the nip (60) to sever the strip (33) from the roll. <IMAGE>

IPC 1-7

B42C 9/00; **B65H 33/04**

IPC 8 full level

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CPC (source: EP)

B42C 9/0075 (2013.01); **B65B 27/08** (2013.01); **B65C 1/042** (2013.01); **B65H 33/04** (2013.01); **B65H 2301/42612** (2013.01)

Citation (search report)

- [X] GB 527098 A 19401002 - JAGENBERG WERKE AG
- [X] US 2684240 A 19540720 - LINDSEY SETH B
- [X] US 2676725 A 19540427 - BUHL RAYMOND T
- [A] US 2346142 A 19440411 - ANDERSON ARTHUR A
- [A] GB 843669 A 19600810 - PEMBROKE CARTON & PRINTING COM
- [A] GB 697537 A 19530923 - JAGENBERG WERKE AG

Cited by

CH704967A1; DE4415485A1; EP2657142A1; US10717556B2; WO2012084464A2; US9511613B2; EP3156251A1; EP3156250A1; US10427444B2

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