

Title (en)

PUNCH DIE FOR CARDBOARD BOX WITH TEAR STRIP

Title (de)

STANZSTEMPEL FÜR EINEN KARTON MIT AUFREISSSTREIFEN

Title (fr)

FILIÈRE DE POINCONNAGE POUR BOÎTE EN CARTON AVEC BANDE D'ARRACHEMENT

Publication

EP 2050681 A1 20090422 (EN)

Application

EP 07792244 A 20070809

Priority

- JP 2007065592 W 20070809
- JP 2006216646 A 20060809
- JP 2007054369 A 20070305
- JP 2007190775 A 20070723

Abstract (en)

A cutting die is proposed for producing a corrugated fiberboard box with a lower deficiency rate which can be easily opened by pulling tear strips. The cutting die is used to produce a corrugated fiberboard in which wall portions 2 and horizontal wall portions 3 are integrally formed through ridge-forming rules 1. The fiberboard box also includes tear strips 7 for opening the box extending parallel to the ridge-forming lines 1, and their cut starting portions 8. Each tear strip 7 is defined by wavy cut lines 7a. Each cut line 7a is a lead rule including through cuts extending through the corrugated fiberboard from its back to front, and half cuts arranged alternately with the through cuts and extending from its back to a midpoint of the fiberboard in its thickness direction. The fiberboard is formed into a box by bending the vertical wall portions 2 and the horizontal wall portions 3 along the ridge-forming rules 1. The cutting die includes presser members 10 for forming the ridge-forming dies 1, and wavy lead rule blades 11 having alternately arranged high blade portions and low blade portions for forming the wavy cut lines 7a defining the tear strips 7. The cutting die is further provided with through cut-forming blades adjoined to the respective lead rule blades 11 for forming cuts 8a of the cut starting portions.

IPC 8 full level

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Cited by

DE102019111435A1; EP3744657A1; US2013319202A1; US9162366B2; EP2543504A1; CN102862861A; ITBO20110409A1; CN106985455A; IT202100014846A1; JP2018002294A

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