Title (en)

Method and device for force-opening and ventilating of a pile of sheets, in particular a pile of paper sheets

Title (de)

Verfahren und Vorrichtung zum Aufbrechen und Belüften von blattartigen Materialstapeln, insbesondere von Papierstapeln

Title (fr)

Procédé pour rompre et ventiler une pile des feuilles, en particulier une pile des feuilles de papier

Publication

EP 1443006 B2 20110629 (DE)

Application

EP 04001332 A 20040122

Priority

DE 10303557 A 20030129

Abstract (en)

[origin: EP1443006A1] The procedure for the separating and ventilating of especially paper sheet material piles (1) entails a positional shifting in relation to each other of the individual sheets of a layer (5), and then carrying out ventilating in such a way that the layer guided, or guided and fixed at a predetermined angle on at least one side, is transported through a passage (7) formed by at least one upper section (10) and lower section (11) of a roller-form gripper, and then laid down at a predetermined angle. An independent claim is included for a device for the separating and ventilating of especially paper sheet material piles.

IPC 8 full level

B65H 3/32 (2006.01); B65H 3/24 (2006.01); B65H 3/48 (2006.01); B65H 3/60 (2006.01); B65H 5/00 (2006.01)

CPC (source: EP)

B65H 3/242 (2013.01); B65H 3/32 (2013.01); B65H 3/48 (2013.01); B65H 3/60 (2013.01); B65H 5/006 (2013.01)

Citation (opposition)
  Opponent :
  • DE 2641214 A1 19770512 - STICHT WALTER
  • US 5288065 A 19940222 - WYSSMULLER PHILIPPE [CH]
  • FR 2353466 A1 19771230 - TRANSAC DEV TRANSACT AUTOMAT [FR]
  • EP 0021396 A1 19810107 - IBM [US]
  • JP H07165344 A 19950627 - NEMOTO KIKAKU KOGYO KK, et al

Cited by

DE102014111384B4; DE102012102444A1; EP2053001A1; GB2546269A; GB2546269B; WO2006056498A1; DE102014111384A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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