

Title (en)

Plate separation with magnetic fields

Title (de)

Plattentrennung mit Magnetfeldern

Title (fr)

Séparation de plaques dotée de champs magnétiques

Publication

**EP 2163384 A3 20100414 (DE)**

Application

**EP 09168812 A 20090827**

Priority

DE 102008047373 A 20080915

Abstract (en)

[origin: EP2163384A2] The method involves inducing turbulent flows (11, 12) with the same rotational direction in two upper pressure disks (2) of a pressure disk stack. The pressure disks are pushed-off from each other by the turbulent flows. The pressure disks with an electrically insulated interlayer (3) e.g. polymer layer, are exposed to a magnetic alternating field (10) for producing the turbulent flows. A magnetic body (4) for producing the alternating field and having a perpendicular component are applied on the stack. An independent claim is also included for a device for separating a pressure disk from a pressure disk stack.

IPC 8 full level

**B65H 3/60** (2006.01); **B41C 1/10** (2006.01); **B41F 27/12** (2006.01); **B65H 3/16** (2006.01)

CPC (source: EP)

**B65H 3/16** (2013.01); **B65H 3/60** (2013.01); **B41P 2227/60** (2013.01); **B65H 2701/1928** (2013.01)

Citation (search report)

- [I] CH 307394 A 19550531 - HERCULES ELECTRIC AND MANUFACT [US]
- [I] EP 0905067 A1 19990331 - W P MECHANICS N V [BE]
- [A] EP 1302422 A1 20030416 - ASM S A [ES]

Cited by

CN105752670A; CN111923588A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**EP 2163384 A2 20100317**; **EP 2163384 A3 20100414**; DE 102009039458 A1 20100415

DOCDB simple family (application)

**EP 09168812 A 20090827**; DE 102009039458 A 20090831