

Title (en)
Sheet abnormality detection apparatus and method

Title (de)
Vorrichtung und Verfahren zur Erkennung von Blattabweichungen

Title (fr)
Appareil et procédé de détection d'anomalie d'une feuille

Publication
EP 1970335 A3 20100818 (EN)

Application
EP 08004803 A 20080314

Priority
JP 2007068565 A 20070316

Abstract (en)
[origin: EP1970335A2] A sheet abnormality detection apparatus includes a plurality of abutting members (112,142,236) which move upon coming into contact with at least one of sheets conveyed to overlap while being shifted from each other in a convey direction and an object attached to a sheet. The plurality of abutting members (112,142,236) are disposed side by side in a direction perpendicular to a sheet convey direction. The apparatus also includes an abnormality detection unit which detects a sheet abnormality on the basis of a relative positional shift among the plurality of abutting members (112,142,236). A sheet abnormality detection method is also disclosed.

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Citation (search report)
• [X] DE 10348029 A1 20040513 - HEIDELBERGER DRUCKMASCH AG [DE]
• [X] US 2003141653 A1 20030731 - KUMAMOTO HIROSHI [JP], et al
• [A] US 4426785 A 19840124 - LOFTUS PETER J [US], et al
• [A] US 2006055105 A1 20060316 - KAWAGUCHI RYOTA [JP], et al
• [A] EP 1055622 A2 20001129 - HEIDELBERGER DRUCKMASCH AG [DE]

Cited by
EP2489514A1; US8434758B2

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

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DOCDB simple family (application)
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