

Title (en)

Sheet-like paper products conveying route switching apparatus

Title (de)

Schalteeinrichtung zur Kommutation der Förderstrecke von blattartigen Papierartikeln

Title (fr)

Appareil de commande de commutation de la voie de transport de produits papetiers en forme de feuille

Publication

EP 1762524 A1 20070314 (EN)

Application

EP 06019194 A 20060913

Priority

JP 2005265832 A 20050913

Abstract (en)

This specification discloses a sheet-like paper products conveying route switching apparatus for switching conveying route of sheet-like paper products between a first conveying route from a first conveying path to a second conveying path and a second conveying route from the first conveying path to the third conveying path that includes, a perforated first conveyor belt constituted for running from the first conveying path to the second conveying path, a perforated second conveyor belt constituted for running from the first conveying path to the third conveying path, a first sensor placed along the first conveying path for detecting the sheet-like paper product conveyed by being clamped between the first and second conveyor belts, a first pneumatic operation body placed between the first conveying path and the second conveying path, a second pneumatic operation body placed between the first conveying path and the third conveying path, second and third sensors respectively placed between the first pneumatic operation body and the second conveying path and between the second pneumatic operation body and the third conveying path, and first and second pneumatic control means provided for controlling pneumatic operation of the first pneumatic operation body and the second pneumatic operation body in response to the first, the second, and the third sensors, wherein the first and the second pneumatic operation bodies are each provided with a groove for guiding the running of the first or the second conveyor belt, and a pneumatic run with one end opening at the groove, and the first and the second pneumatic operation bodies are constituted for drawing the sheet-like paper product by air-intake through the pneumatic run to the first or the second conveyor belt or bearing off the sheet-like paper product by air-discharge through the pneumatic run from the first or the second conveyor belt.

IPC 8 full level

B65H 29/60 (2006.01)

CPC (source: EP US)

B65H 29/58 (2013.01 - EP US); **B65H 29/60** (2013.01 - EP US); **B65H 2404/631** (2013.01 - EP US); **B65H 2406/122** (2013.01 - EP); **B65H 2701/1912** (2013.01 - EP US)

Citation (search report)

- [X] US 3659840 A 19720502 - RUCK BERNARD W
- [XA] DE 2940924 A1 19810430 - STIEGLER KARL HEINZ [DE]
- [A] US 5427368 A 19950627 - ABE YUKIO [JP], et al
- [A] US 5607146 A 19970304 - NOVICK MICHAEL A [US], et al
- [A] GB 2182315 A 19870513 - DE LA RUE SYST
- [A] DE 19955815 A1 20000706 - QUAD TECH [US]
- [A] US 3260029 A 19660712 - KUBICK HARRY A

Cited by

CN109147158A

Designated contracting state (EPC)

AT DE FR GB IT

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1762524 A1 20070314; CN 1931694 A 20070321; JP 2007076794 A 20070329; US 2007069458 A1 20070329

DOCDB simple family (application)

EP 06019194 A 20060913; CN 200610151818 A 20060913; JP 2005265832 A 20050913; US 51977406 A 20060913