

Title (en)

Method and device for sorting, separating and/or transferring laundry items

Title (de)

Verfahren und Vorrichtung zum Sortieren, Vereinzeln und/oder Übergeben von Wäschestücken

Title (fr)

Procédé et dispositif de tri, d'isolation et/ou de transmission de pièces de linge

Publication

EP 2113606 A3 20091209 (DE)

Application

EP 09005199 A 20090409

Priority

DE 102008021502 A 20080429

Abstract (en)

[origin: EP2113606A2] The method involves determining a sorting criterion e.g. color and/or structure, on items of linen hanging from a transportation device (11) by image recognition. The image recognition is carried out in a darkened region along the transportation device during continuous onward transportation of the respective item of linen. The items of linen are individually transferred to a distributor conveyor (57) via an intermediate conveyor (56) after determining the criterion. The items of linen are moved away from the distributor conveyor by compressed air. Independent claims are also included for the following: (1) a method for singling out items of linen (2) a method for transferring an individual item of linen to a conveyor (3) a device for singling out items of linen, comprising a sensor (4) a device for transferring an item of linen to a subsequent conveyor, comprising a gripper (5) a device for sorting items of linen to be washed, comprising a transportation device.

IPC 8 full level

D06F 93/00 (2006.01)

CPC (source: EP US)

D06F 93/00 (2013.01 - EP US)

Citation (search report)

- [Y] US 4036365 A 19770719 - ROSENFELD HOWARD
- [Y] WO 0186267 A1 20011115 - DSM NV [NL], et al
- [Y] US 5966205 A 19991012 - JUNG WAYNE D [US], et al
- [A] DE 2644943 A1 19780406 - KLEINDIENST & CO
- [A] WO 9846372 A1 19981022 - UNIV BROWN RES FOUND [US]

Cited by

US9297110B2; EP2784208A3; EP2623661A1; US10167590B2; EP3366831A4; EP2915917A3; EP3026170A1; US9908152B2; US9187253B2; EP3029195A1; EP2930264A1; US9920470B2; EP3290578A1; EP4198192A1; EP2789730A1; US2014303771A1; EP3795740A1; US9988220B2; US10699402B2; US10738416B2; EP3290578B1

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