

Title (en)

DEVICE FOR SORTING DIFFERENT MATERIALS WITH THE AID OF A CONVEYOR BELT AND AN ELECTROMAGNETIC ACTUATOR

Title (de)

SORTIEREINRICHTUNG UNTERSCHIEDLICHER STOFFE MIT HILFE EINES TRANSPORTBANDES UND EINES ELEKTROMAGNETISCHEN STELLGLIEDS

Title (fr)

DISPOSITIF POUR TRIER DIFFERENTES MATIERES A L'AIDE D'UNE COURROIE TRANSPORTEUSE ET D'UN ACTIONNEUR ELECTROMAGNETIQUE

Publication

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Application

**EP 04797990 A 20041118**

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Abstract (en)

[origin: WO2005050823A1] The invention relates to a device for sorting different materials, comprising a conveyor belt (30), at least one sensor (37) that is allocated to the conveyor belt (30) and detects pieces of material according to the location thereof on the conveyor belt (30), and at least one actuator (24) which separates pieces of material in accordance with signals of the at least one sensor (37). The inventive sorting device is characterized in that an electromagnetic actuator (24) is used which encompasses an ejecting part (15) that is rotatable about a pin and is connected to at least one coil (10). Said coil (10) is located in the air gap between two couples of permanent magnets (8, 9, 22) and can be rotated from a zero position between the first oppositely magnetized couple (8) into a second position between the second oppositely magnetized couple (9). The ejecting part (15) separates the respective pieces of material with the aid of a rotational movement of the coil (10).

IPC 8 full level

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