

Title (en)
DEVICE AND METHOD FOR SORTING BULK MATERIAL

Title (de)
VORRICHTUNG UND VERFAHREN ZUM SORTIEREN VON SCHÜTTGUT

Title (fr)
DISPOSITIF ET PROCÉDÉ DE TRI DU PRODUIT EN VRAC

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EP 14719721 A 20140422

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Abstract (en)
[origin: WO2015051927A1] The invention relates to an apparatus for sorting bulk material, in particular pellets, comprising a vibration conveyor and a feed device, which feeds bulk material to the vibration conveyor, further comprising a first exit and a second exit, wherein the first exit is arranged such that the bulk material conveyed over one end of the vibration conveyor drops into the first exit, further comprising at least one detector device, by means of which the bulk material conveyed by the vibration conveyor is examined for defects, wherein the detector device comprises at least one X-ray detector device having at least one X-ray source and at least one X-ray sensor, and wherein the detector device comprises at least one optical detector device operating in the visible wavelength range, and/or at least one detector device operating in the infrared wavelength range, and having at least one optical radiation source and at least one optical sensor, wherein the apparatus also comprises a separating-out device, by means of which bulk material conveyed over the end of the vibration conveyor and detected as being defective by the detector device has its trajectory influenced such that the bulk material detected as being defective drops into the second exit, wherein the end of the vibration conveyor is adjoined by a rotationally driven roller, onto which the bulk material conveyed over the end of the vibration conveyor passes and which conveys the bulk material, over a trajectory predetermined by the rotation of the roller, in the direction of the first exit. The invention also relates to a corresponding method. x

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