

Title (en)
SENSOR APPARATUS FOR DETECTING ELECTROMAGNETICALLY DETECTABLE CONVEYED GOODS AND SORTING APPARATUS
HAVING SUCH A SENSOR APPARATUS

Title (de)
SENSORVORRICHTUNG ZUM ERKENNEN ELEKTROMAGNETISCH DETEKTIERBARER FÖRDERGUTTEILE UND SORTIERVORRICHTUNG
MIT EINER SOLCHEN SENSORVORRICHTUNG

Title (fr)
DISPOSITIF DE DETECTION POUR IDENTIFIER DES ELEMENTS DE MATIERE A TRANSPORTER POUVANT ETRE DETECTES PAR
ELECTROMAGNETISME ET DISPOSITIF DE TRI DOTE D'UN DISPOSITIF DE DETECTION DE CE TYPE

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Abstract (en)
[origin: WO2007042139A1] The invention relates to a sensor apparatus (14) having a plurality of sensors (100) for detecting electromagnetically detectable conveyed goods (15, 16), having an associated conveying device (12) which moves conveyed goods (13) past the sensors (100) in a conveying plane and in a direction of movement (116), having a device (102) for generating an alternating electromagnetic field, wherein the sensors (100) each have at least one pair of detector coils (104, 106) which are connected to an evaluation device (20) for determining a differential signal between the coils (104, 106) in a pair for the purpose of detecting conveyed goods (15) which deform the alternating field on the basis of their material properties, and is characterized in that the two detector coils (104, 106) in the pair are arranged in such a manner that they have cross-sectional areas which are parallel to the conveying plane and have centroids (M, M') which have been displaced relative to one another, and the connecting line (L) between the centroids (M, M') is oblique to the direction of movement (116) of the conveyed goods (13). Furthermore, the invention relates to an apparatus (10) for the automated sorting of electromagnetically detectable fractions of a stream of conveyed goods (13) using such a sensor apparatus (14).

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