

Title (en)  
FEEDING AND METERING DEVICE FOR RUBBISH SORTING MEANS

Title (de)  
BESCHICKUNGS- UND DOSIERVORRICHTUNG FÜR EINE MÜLLSORTIEREINRICHTUNG

Title (fr)  
DISPOSITIF DE CHARGEMENT ET DE DOSAGE POUR INSTALLATION DE TRIAGE D'ORDURES

Publication  
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Application  
**EP 97932824 A 19970712**

Priority  
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• EP 9703733 W 19970712

Abstract (en)  
[origin: WO9802356A1] The invention relates to a feeding device (10) for rubbish sorting means with carriers (16) moving along a conveyor belt (14) past a ripper (17). A throwing-back rake (26) is provided in the region of the ripper (17) which is pivotably mounted about a first axle (28) arranged above and crossing the conveyor belt (14), and can be driven by a drive mechanism swinging to and fro in such a manner that the throwing end (44) of the throwing-back rake (26), which end faces the conveyor belt (14) describes at least substantially a path departing from the conveyor belt (14) contrary to the direction (18) of conveyance. There is risk of breakage if objects (54) jam between the throwing-back rake (26) and the carriers (16). As an overload safety mechanism, the first axle (28) is mounted on a rocker (30) which can be moved about a second axle (32) parallel to the first axle (28). The rocker (30) has an associated working position in which the first axle (28) of the conveyor belt (14) is closest and in which the rocker (30) is fixed in the working position thereof until a predetermined break-away force occurs, and is stopped from making a movement departing from the conveyor belt (14). The geometrical arrangement is therefore such that when the throwing end (44) is blocked during the moving stage, extending contrary to the direction of conveyance, on the first axle (28), a tangential force resulting from the drive force occurs in relation to the second axle (32), the direction thereof being suitable to increase the distance between the first axle (28) and the conveyor belt (14).

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