

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
EP 0912401 A1 19990506 (DE)

Application
EP 97932824 A 19970712

Priority
• DE 19628276 A 19960712
• 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).

IPC 1-7
B65B 69/00

IPC 8 full level
B02C 18/00 (2006.01); **B65F 5/00** (2006.01); **B07B 15/00** (2006.01); **B07C 5/02** (2006.01); **B65B 69/00** (2006.01)

CPC (source: EP)
B07C 5/02 (2013.01)

Cited by
CN102700787A; CN106986076A

Designated contracting state (EPC)
AT BE DE ES FR GB

DOCDB simple family (publication)
WO 9802356 A1 19980122; AT E193690 T1 20000615; DE 19628276 A1 19980122; DE 59701851 D1 20000713; EP 0912401 A1 19990506; EP 0912401 B1 20000607; ES 2146478 T3 20000801; JP 3959105 B2 20070815; JP H10146538 A 19980602

DOCDB simple family (application)
EP 9703733 W 19970712; AT 97932824 T 19970712; DE 19628276 A 19960712; DE 59701851 T 19970712; EP 97932824 A 19970712; ES 97932824 T 19970712; JP 18706697 A 19970711