Title (en)

DEVICE FOR COMMINUTING CONTAINERS

Title (de)

VORRICHTUNG ZUM ZERKLEINERN VON GEBINDEN

Title (fr)

DISPOSITIF DE BROYAGE DE CONTENANTS

Publication

EP 1583610 A1 20051012 (DE)

Application

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Abstract (en)

[origin: WO2004065013A1] The invention relates to a device (1) for comminuting containers (2) having a low material strength, particularly made of plastic or aluminum, comprising a milling reactor (3), inside of which a milling mechanism (24) having a number of comminution stages (A, B, C) is situated. Each comminution stage (A, B, C) has at least one cutting blade (6, 10, 15), which is driven by a preferably almost vertically disposed rotor shaft (20) and which interacts with at least one stationary blade (8, 12, 17). The containers (2) can be fed through a feed opening (18) of the milling reactor (3) in the direction of the rotor shaft (20), said feed opening being located on the face. At least one first cutting blade (6) is situated on the top side (4a), which faces the feed opening (18), of a cutting blade support (4), which is connected in a fixed manner to the rotor shaft (20), whereby the first cutting blade (6) interacts with at least one first stationary blade (8). Preferably, the cutting edges (6a, 8a) of the first cutting blade (6) and of the first stationary blade (8) are placed onto the rotor shaft (20) in a normal plane (7). High throughput and high comminution capacity can be achieved when the cutting blade support (4) is provided in the form of a fan wheel (40). At least one first cutting blade (6) is placed in the area of a with regard to the direction of rotation front edge (42) of a fan blade (41) of the fan wheel (40).

[origin: WO2004065013A1] The device has a milling reactor, on which a milling mechanism with a number cutting stages is arranged. Each stage has a cutting blade (6, 10), which is driven by a rotor shaft and interacts with a stationary blade. A cutting blade support (4) is provided in form of a fan wheel (40), where the blade (6) is placed in area of front edge of a fan blade (41) of the fan wheel with regard to direction of rotation of the fan wheel.

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