

Title (en)

Apparatus for grinding and compacting refuse.

Title (de)

Maschine zum Zerkleinern und Verdichten von Abfall.

Title (fr)

Appareil pour le broyage et le compactage de déchets.

Publication

**EP 0156206 A2 19851002 (DE)**

Application

**EP 85102494 A 19850306**

Priority

DE 3411918 A 19840330

Abstract (en)

1. An apparatus for grinding and compacting refuse, comprising a refuse receiving tank (1) capable of being filled up to a predetermined liquid level (4), a rotating grinding disk (12) disposed on an inner wall of the tank (1) and including grinding tools, said grinding disk having a substantially horizontal axis for creating a rotational flow about an (imaginary) horizontal axis and forming part of a grinder (11) driven by a drive motor (17), feeder means (7, 8) for feeding the refuse into the tank (1), a dry press (18) composed substantially of a tubular housing (23), a tubular screen (20) centrally disposed therein, a rotating screw (19) disposed within the tubular screen (20), and outlet means (27, 22) provided at the end of the screw for the compacted refuse, and comprising communicating means between the area (17) behind the grinder (11) and the (lower) start of the screw for the ground refuse pulp, characterized by a) the arrangement of the dry press (18) within the receiving tank (1) and opposite to the grinding disk (12) of the grinder (11), b) separation of the receiving tank (1) into a grinding section (28) and a pressing section (29) by means of a partition wall (24) (which is preferably removable for cleaning purposes), and c) the provision of said communicating means as a communicating passageway (16).

Abstract (de)

Die Erfindung bezieht sich auf eine Maschine zum Zerkleinern und Verdichten von Abfall mit einem Tank (1), einem Mahlwerk (11) mit einer rotierenden Mahlscheibe (12) innerhalb des Tanks (1), sowie mit einer nachgeschalteten Trockenpresse (18) zum Verdichten des Abfall-Flüssigkeits-Breis bei gleichzeitiger Entfernung der Flüssigkeit. Zur Integration der Trockenpresse in die eigentliche Maschine, insbesondere in den Tank, zur Verbilligung von Herstellung und Handhabung, sowie zur Verbesserung von Hygiene und insbesondere der Reinigungsmöglichkeit wird die Mahlscheibe (12) im wesentlichen horizontal angeordnet und im Tank (1) sowohl eine Rotationsströmung um eine (gedachte) horizontale Achse als auch eine der Rotationsströmung überlagerte Horizontalströmung, insbesondere in Richtung Mahlscheibe (12), erzeugt.

IPC 1-7

**B02C 18/40**

IPC 8 full level

**B02C 23/36** (2006.01); **B30B 9/14** (2006.01); **B65F 1/00** (2006.01)

CPC (source: EP)

**B02C 18/0092** (2013.01)

Cited by

EP1852188A1; EP0443310A3; CN111437976A; US7625195B2; EP0824966A1; EP1712546A1; CN110433933A; CN112108245A; US9597617B2; WO2012004649A3

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL

DOCDB simple family (publication)

**EP 0156206 A2 19851002; EP 0156206 A3 19880309; EP 0156206 B1 19900228**; AT E50519 T1 19900315; DE 3411918 A1 19851010; DE 3411918 C2 19911010; DE 3576125 D1 19900405

DOCDB simple family (application)

**EP 85102494 A 19850306**; AT 85102494 T 19850306; DE 3411918 A 19840330; DE 3576125 T 19850306