

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

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CPC (source: EP)

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Cited by

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

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