

Title (en)

Apparatus for briquetting stalks,in particular straw.

Title (de)

Vorrichtung zum Brikettieren von pflanzlichem Halmgut, insbesondere Stroh.

Title (fr)

Dispositif pour agglomérer du brin végétal, notamment de paille.

Publication

EP 0359285 B1 19940622 (DE)

Application

EP 89117142 A 19890915

Priority

DE 3831528 A 19880916

Abstract (en)

[origin: EP0359285A2] The apparatus for briquetting plant material, especially stalks, comprises a conical worm compactor (27) of which the worm (29) driveable in rotation possesses, at least at its end at the front in the conveying direction, a conically tapering outer contour defined by a plurality of turns of at least one worm helix (51) projecting from a conical worm core (49) and projects a cone-shaped compactor (33) of a worm housing (35). Ribs (53) project from the inner cone surface (55) of the conical space (33) towards the worm (29) and surround the worm (29) in the form of a conical helix with a turn direction opposite the turn direction of the worm (29). The rib (53) in the form of a conical helix appropriately extends as far as an outlet orifice (41) and screws the compacted stalks, co-rotating with the worm (29) at least to a limited extent, towards the outlet orifice (41). The apparatus possesses a press die (45), the outlet cross-section of which can be varied via a wedge mechanism (73, 79, 81). Inserted between the press die (45) and the conical worm compactor (27) is an annular part (43) which on its inner circumference (57) has a plurality of capillary degassing slots (63) open to the environment. <IMAGE>

IPC 1-7

B30B 11/24; **B30B 11/00**

IPC 8 full level

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CPC (source: EP)

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Citation (examination)

- US 4632795 A 19861230 - HUBER GORDON R [US], et al
- CH 627048 A5 19811231 - LOIDL HANS [AT], et al

Cited by

CN112903523A; US5716440A; CN107471714A; EP0846553A3; EP1385694A4; GB2331725A; RU185861U1; RU178075U1; US5302102A; RU178074U1; RU2504473C2; RU187933U1; CN111616320A; US6247662B1; WO9809801A3; WO0018572A1; WO9104150A1

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