

Title (en)

SCREW PRESS FOR EXTRACTING LIQUIDS.

Title (de)

SCHNECKENPRESSE ZUM ENTZIEHEN VON FLÜSSIGKEITEN.

Title (fr)

PRESSE HELICOIDALE POUR L'EXTRACTION DE LIQUIDES.

Publication

EP 0083581 A4 19841122 (EN)

Application

EP 81902149 A 19810720

Priority

US 8100967 W 19810720

Abstract (en)

[origin: WO8300306A1] A screw press for extracting liquids from materials such as fruits, vegetables, or the like having a cylindrical barrel (51, 45) having a concentric variable-speed helical feed and compression screw (20). The rearward portion of the cylindrical barrel comprises a cage section having perforate filter screens (40) for passing extracted liquids and filtering out undesired solids from the material being pressed formed by at least one pair of open semi-circular frames (41) having a plurality of ribs (49) which support replaceable filter screens (42). The pair of frames is attached to a set of lower hinge blocks (46) and is removably joined along the upper edges of the frames (43). The frames may be separated at the upper edges to open in a book-like manner completely clear of the feed and compression screw, permitting cleaning of the screens and screw, or replacement of the screens. A portion of the barrel rearward from the feed and compression screw forms a cylindrical pressing chamber (45) having screen walls for passing extracted liquids therethrough. The outlet end of the cylindrical pressing chamber is closed by a circular door (16) having inner projecting cutter bars and slidably mounted on the feed and compression screw drive shaft (26). Hydraulic actuators (72) apply adjustable pressure to the outside surface of the door. The internal pressure of material causes the door to open for ejection of the dried material. A clutch (90) automatically engages when the door opens to rotate the door and the cutting bars to pare away a cake of the dried material.

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] US 4266473 A 19810512 - HUNT ARTHUR J, et al
- [X] FR 1078231 A 19541116 - CELESTIN COQ & CIE
- [X] FR 1591707 A 19700504

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