

Title (en)

SCREW PRESS WITH CONTINUOUS SLOPE FEED SCREW

Publication

EP 0078259 B1 19860917 (EN)

Application

EP 81901834 A 19810507

Priority

US 8100613 W 19810507

Abstract (en)

[origin: WO8203820A1] A screw press for extraction of liquids from solids or semi-solids having a feed screw (22, 24) disposed in a cylindrical cage (41) formed from filter screens (42). The feed screw has a body portion (22) that increases in diameter over the full length of the screw in a linear fashion forming a gradual slope providing a gentle pressing action on the materials being pressed. A variable speed drive (60) is used to optimize the rotational speed of the feed screw for maximum liquid extraction versus material throughput. The cylindrical cage (41) comprises at least one pair of semi-circular sections connected along a lower edge by a set of offset hinges (46) and bolted together along an upper edge. For cleaning of the press or changing of filter screens, the sections open with the offset hinges causing the sections to move downward and outward, completely clear of the feed screw. The screw press is especially suitable for predraining of grape must prior to final pressing, dejuicing fragile fruits such as apples, and dewatering of materials having a high liquid content.

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IPC 8 full level

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CPC (source: EP)

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Cited by

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