

Title (en)

CAGE SCREW PRESS AND PROCESS FOR THE RECOVERY OF OIL FROM WASHED OIL FRUITS AND OIL SEEDS USING THIS CAGE SCREW PRESS

Publication

**EP 0017809 B1 19840613 (DE)**

Application

**EP 80101584 A 19800326**

Priority

DE 2915538 A 19790418

Abstract (en)

[origin: US4357865A] Apparatus for recovering oil, especially edible oils, from oil-containing fruit and seed in which immediately upon cleaning the fruit and seed, this oil-bearing material is subjected to cold pressing without prior heat treatment to recover a portion of the oil and the residue is thereupon extracted. The apparatus comprises a worm press formed with a perforated cylinder and a worm rotatable in said cylinder, said worm and said cylinder are subdivided along their lengths into a plurality of sections by respective shear gaps and throttles. The depth of the helical groove between flights progressively decreases toward the shear gaps and, in general, along the worm. The thread depth can range between 2 and 12% of the outer diameter of the worm which is preferably constant over the entire length thereof. Each flight may have a progressively decreasing pitch angle toward the outlet side and can be between 7.5 and 15.

IPC 1-7

**C11B 1/00**; **C11B 1/06**; **B30B 9/12**

IPC 8 full level

**B30B 9/12** (2006.01); **C11B 1/00** (2006.01); **C11B 1/06** (2006.01); **C11B 1/10** (2006.01)

CPC (source: EP US)

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Citation (examination)

R.H. Perry, "Chemical Engineers' Handbook", 5. Auflage, McGraw-Hill Book Company, New York, Seite 19-102

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