

Title (en)
Screw-press for dewatering suspensions

Title (de)
Schneckenpresse zum Entwässern von Suspensionen

Title (fr)
Presse à vis pour la déshydratation de suspensions

Publication
EP 0672519 B1 19981111 (DE)

Application
EP 95103576 A 19950313

Priority
DE 4408539 A 19940314

Abstract (en)
[origin: US5713268A] PCT No. PCT/EP95/00920 Sec. 371 Date Jan. 24, 1996 Sec. 102(e) Date Jan. 24, 1996 PCT Filed Mar. 13, 1995 PCT Pub. No. WO95/25006 PCT Pub. Date Sep. 21, 1995A screw press in which a screw continuously dewateres a suspension. The screw has a threaded section and a downstream compression section with a variable squeeze, and the screw is powered to forward the suspension. A housing accommodates the threaded section and the compression section with the variable squeeze. The suspension is admitted in dilute form at an intake at one end of the press. At another end of the press, the suspension is delivered in dewatered form downstream of the compression section through an outlet. The housing is in the form of a wire basket permeable to liquids and impermeable to solids, and is axially displaceable back and forth adjacent the unthreaded compression section between a non-operating position and an operating position to vary an effective length of the basket. This effective length is zero in the non-operating position for emptying the press. The effective length and the resulting pressure on the compression section corresponds to a desired parameter in the operating position. The compression section, furthermore, is free of separate elements that comprise a squeeze.

IPC 1-7
B30B 9/12; **B30B 9/26**

IPC 8 full level
B30B 9/14 (2006.01); **B30B 9/12** (2006.01); **B30B 9/18** (2006.01); **B30B 9/26** (2006.01)

CPC (source: EP US)
B30B 9/12 (2013.01 - EP US); **B30B 9/125** (2013.01 - EP US); **B30B 9/18** (2013.01 - EP US); **B30B 9/26** (2013.01 - EP US)

Cited by
NL1005398C2; WO9837942A1; WO2023072814A1

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
US 5713268 A 19980203; DE 4408539 A1 19950921; DE 59504179 D1 19981217; EP 0672519 A1 19950920; EP 0672519 B1 19981111; FI 107792 B 20011015; FI 955450 A0 19951113; FI 955450 A 19951113; JP 2007000926 A 20070111; JP 3881008 B2 20070214; JP H08510413 A 19961105; WO 9525006 A1 19950921

DOCDB simple family (application)
US 55706896 A 19960124; DE 4408539 A 19940314; DE 59504179 T 19950313; EP 9500920 W 19950313; EP 95103576 A 19950313; FI 955450 A 19951113; JP 2005226031 A 20050803; JP 52382995 A 19950313