

Title (en)

APPARATUS FOR CONTINUOUSLY EXPRESSING LIQUID FROM A SUSPENSION

Title (de)

VORRICHTUNG ZUM KONTINUIERLICHEN AUSPRESSEN VON FLÜSSIGKEIT AUS EINER SUSPENSION

Title (fr)

DISPOSITIF SERVANT À EXPRIMER EN CONTINU DU LIQUIDE À PARTIR D'UNE SUSPENSION

Publication

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Application

EP 17790936 A 20171002

Priority

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Abstract (en)

[origin: WO2018098512A1] The invention relates to an apparatus for continuously expressing liquid from a suspension, in particular a screw press (1), having a rotationally driven rotor (4) rotating in a tubular screw housing (2) and bearing a conveying worm (3), wherein the screw housing (2) is at least partly formed as a first filter jacket (5) which interacts with the conveying worm (3), which filter jacket has radial passages (6) for leading the filtered liquid away, and which leads a filter cake (K) of retained solids in the conveying direction (7) of the conveying worm (7) to an outlet (8). In order to create advantageous filtering conditions, according to the invention, the rotor (4) is assigned, downstream of the conveying worm (3), an annular first sleeve (9) enclosing the rotor (4) coaxially, for peeling an outer filter cake layer (10) off the filter cake (K), wherein a conveying channel (11) for the remaining inner filter cake layer (12) is provided between the sleeve (9) and the rotor (4), and the rotor (4) has a second filter (13) in the region of the conveying channel (11) to lead the filtered liquid away through the rotor (4).

IPC 8 full level

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