

Title (en)
PUSHER CENTRIFUGE

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Application
EP 82103444 A 19820423

Priority
CH 419981 A 19810625

Abstract (en)
[origin: US4434052A] A centrifugal separator, especially a pusher centrifuge is disclosed, wherein at least one rotatable sieve or filter drum is mounted within a housing. Within the sieve or filter drum there is arranged a to-and-fro displaceable pusher or thrust element, for instance in the form of a pusher floor member, which serves for displacing solid materials in the form of a filter cake towards outlet or discharge openings for the treated product. To process thin suspensions with the pusher centrifuge the pusher floor member is arranged for oscillating movement between two turning or deflection points preferably located at the region of an imaginary central line of the sieve or filter drum. A feed or supply pipe for the infeed of the suspension which is to be separated extends substantially coaxially with respect to the sieve or filter drum and its outlet or outflow opening, which extends radially outwardly, is located essentially at the center between the turning or deflection points of the pusher floor member. The pusher floor member further possesses a central opening which frees a passage for the supply pipe. During the to-and-fro oscillating displacement of the pusher floor member relative to the outflow opening of the feed pipe this outflow opening is alternately located to one or the other side of the pusher floor member. The outlet or discharge openings for the treated product, i.e. the filter cakes are provided to both sides of the sieve or filter drum. According to an alternative construction the sieve or filter drum can be moved relative to the pusher floor member.

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IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
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