

Title (en)
Cyclone separator

Title (de)
Zyklonabscheider

Title (fr)
Séparateur cyclone

Publication
EP 1157651 A3 20011205 (EN)

Application
EP 01119200 A 19981104

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Abstract (en)
[origin: WO9922872A1] A cyclone separator comprises an inlet chamber (52) including means (51) to introduce a fluid mixture to swirl about an axis (55) within the chamber, an outlet chamber (53) spaced along said axis from the inlet chamber and including a first outlet (62) for heavier phases of the mixture and a second outlet (63) for lighter phases of the mixture, and an intermediate chamber (54) connecting the inlet and outlet chambers, the intermediate chamber being, at its junction with the inlet chamber, of not greater dimensions radially of said axis than the minimum such dimension of the inlet chamber. The velocity of swirl during separation is maintained by this relationship, and is increased when the entry of the intermediate chamber is smaller; tapering inwards of the intermediate chamber also increases the swirl velocity and hence the separation efficiency.

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IPC 8 full level
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