

Title (en)
CYCLONE SEPARATOR

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Application
EP 85903647 A 19850723

Priority
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Abstract (en)
[origin: WO8604271A1] A cyclone separator (10) having an inlet with inner and outer profiles (84, 82), viewed in section transverse to the separator axis. This location of any particular point on the outer profile (82) is defined by a vector contained in a plane normal to the separator axis, and having its origin at a location (C) where the outer profile meets the adjacent inner circumference (86) of the separator. As the magnitude of the vector (T) increases, an angle $\theta(u)$ between the vector (T) and a tangent (92) to the circumference (C) which passes through location (C) never decreases and never becomes less than negative 0.1 radian. The location of any particular point on the inner profile (84) is defined by a vector (U) having its point of origin at a location (E) where the inner profile or at least its projection meets the separator circumference (86). As the magnitude of vector (U) increases, an angle $\theta(z)$ between vector (U) and a tangent (93) to circumference (86) which passes through location (E) never decreases and never becomes less than negative 0.52 radian, at least for substantial magnitudes of vector (U).

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