

Title (en)

CYCLONE SEPARATOR AND METHOD FOR SEPARATING MATTER FROM A GAS FLOW

Title (de)

ZYKLONABSCHIEDER UND VERFAHREN ZUR ABSCHIEDUNG VON PARTIKELN AUS EINEM GASSTROM

Title (fr)

SEPARATEUR A CYCLONE ET PROCEDE DE SEPARATION DE MATIERE A PARTIR D'UN ECOULEMENT GAZEUX

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Application

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Abstract (en)

[origin: WO2008152203A1] The invention relates to a cyclone separator (1) for separating material to be separated from the gas flow. The cyclone separator comprises a separator chamber (2), an inlet connection (3) for feeding gas into the separator chamber (2), and a discharge connection (4) for discharging gas from the separator chamber (2). The separator chamber, the inlet connection and the discharge connection have a central axis and a wall. The cyclone separator also comprises a separation opening (7) for discharging separated material from the separator chamber (2), and in the inlet connection (3) and/or the separator chamber (2) at least one guide vane (8a) for directing the gas flow towards the wall (11) of the separator. The guide vane has a first surface (12) and a longitudinal axis substantially parallel to it, and a base portion by means of which the guide vane is arranged in conjunction with the central axis of the inlet connection and/or that of the separator chamber, from which conjunction the first surface and the longitudinal axis is arranged radially so that they protrude towards the wall of the separator chamber and/or that of the inlet connection. At least a portion of the first surface of the guide vane is arranged, by turning it around its longitudinal axis or in a similar way, at an angle (a) which is 1-90 degrees, preferably 5-70 degrees, very preferably 10-60 degrees in relation to the main direction (10) of the gas flow. The invention also relates to a method for separating material from a gas flow.

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