

Title (en)  
DUST SEPARATOR WITH A RECUPERATOR, PARTICULARLY A CYCLONE

Publication  
**EP 0145808 B1 19870812 (DE)**

Application  
**EP 83112777 A 19831219**

Priority  
EP 83112777 A 19831219

Abstract (en)  
[origin: EP0145808A1] 1. Vortex dust separator, especially a cyclone, having a vortex chamber (2) serving for dust separation, with a tangential gas inlet (15) arranged at the upper end of the vortex chamber (2), a central immersion tube (8) that projects into the vortex chamber from above and surrounds a gas discharge chamber (10), the immersion tube (8) being of double-walled construction in the form of a first heat exchange element (6) through which coolant flows, and a second heat exchange element (7) through which coolant flows and which comprises tubes (9) distributed around the axis of the vortex chamber (2) at a distance from one another, characterised in that the tubes (9) are arranged inside the gas discharge chamber (10) and extend along the generatrices of an imaginary convergent/divergent envelope surface.

IPC 1-7  
**B04C 5/20**

IPC 8 full level  
**B04C 5/20** (2006.01); **F23G 5/46** (2006.01); **F23J 15/02** (2006.01); **F28F 13/06** (2006.01)

CPC (source: EP)  
**B04C 5/20** (2013.01); **F23G 5/46** (2013.01); **F23J 15/027** (2013.01); **F28F 13/06** (2013.01)

Cited by  
EP0262274A1; CN115029500A; FR2654814A1; CN112387433A; CN111334352A; EP0416238A1; CN104388706A; CN108411088A; WO8806924A1

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**EP 0145808 A1 19850626; EP 0145808 B1 19870812; AT E28802 T1 19870815; DE 3372932 D1 19870917**

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