

Title (en)

Cyclone separator having water-steam cooled walls.

Title (de)

Zyklonabscheider mit wasser- bzw. dampfgekühlten Wänden.

Title (fr)

Séparateur cyclone à parois refroidies par eau ou vapeur.

Publication

**EP 0298671 A2 19890111 (EN)**

Application

**EP 88306056 A 19880701**

Priority

- US 6993087 A 19870706
- US 16163288 A 19880229
- US 17981888 A 19880411

Abstract (en)

A cyclone separator has an outer cylinder is formed by a plurality of vertically-extending, spaced, parallel tubes and extends around an inner pipe in a coaxial relationship therewith to define an annular chamber. A portion of the tubes forming the outer cylinder are bent out of the plane of the cylinder to form an inlet opening in a tangential relationship to the annular chamber for receiving gases containing solid particles and directing same through the annular chamber for separating the solid particles from the gas by centrifugal forces. The tubes are bent radially inwardly towards the inner pipe to support the inner cylinder steam and/or water is passed through the tubes to cool the outer cylinder.

IPC 1-7

**B04C 5/20**

IPC 8 full level

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CPC (source: EP)

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Cited by

EP0559388A3; EP0497528A1; EP0506343A3; KR100974432B1; EP0457983A1; EP0413599A1; EP0413612A3; CN1039936C; EP0931841A1; US6051182A; FR2657683A1; US9370783B2; US8945283B1; WO2009017972A3; WO2017125642A1

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