

Title (en)
CYCLONE SEPARATOR HAVING WATER-STEAM COOLED WALLS

Publication
EP 0298671 A3 19900328 (EN)

Application
EP 88306056 A 19880701

Priority
• US 6993087 A 19870706
• US 16163288 A 19880229
• US 17981888 A 19880411

Abstract (en)
[origin: EP0298671A2] 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.

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B04C 5/20

IPC 8 full level
B04C 5/20 (2006.01); **B04C 5/08** (2006.01); **B07C 5/20** (2006.01); **F22B 31/00** (2006.01)

CPC (source: EP)
B04C 5/08 (2013.01); **B07C 5/20** (2013.01); **F22B 31/0084** (2013.01)

Citation (search report)
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• [Y] US 3470678 A 19691007 - CLARK EARL C, et al
• [X] SE 437124 B 19850211 - GENERATOR IND AB [SE]
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• [A] FR 2527478 A1 19831202 - CREUSOT LOIRE [FR]
• [A] GB 641357 A 19500809 - C U R A PATENTS LTD
• [A] EP 0197207 A1 19861015 - FOSTER WHEELER ENERGY CORP [US]
• [Y] SOVIET INVENTIONS ILLUSTRATED, week C35, 8 October 1980, abstract no. 61867, Class J01,P41, Derwent Publications Ltd, London, GB; & SU-A-709 182 (DNEPR METALLURG INS) 18-01-1980

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