

Title (en)

VERTICAL SEPARATOR OF A MIXTURE OF STEAM OR GAS AND LIQUID OR SOLID PARTICLES

Publication

EP 0005494 B1 19811014 (FR)

Application

EP 79101381 A 19790507

Priority

- FR 7814212 A 19780512
- FR 7908784 A 19790406

Abstract (en)

[origin: ES480485A1] A vertical separator for separating liquid or solid particles from a mixture of the particles and a vapor or a gas, said separator including, inside an outer casing a chamber for admitting the mixture, a plurality of vertical tubes whose ends are provided with fixed blades which impart a helical movement to the mixture and whose outlets are provided with a coaxial tube whose diameter is smaller and which allows dry vapor or gas to be removed in an inner tube and a mixture containing a higher proportion of liquid or solid particles to be removed in the annular space which leads into a free chamber where said mixture which contains a higher proportion of liquid or solid particles is allowed to be separated into substantially dry vapor or gas and a fluid which contains little vapor or gas. At the bottom of said free chamber, the separator has an upwardly convex bottom, an annular space for collecting the fluid which has a low vapor or gas content and passages which are regularly disposed between the tubes and which allow the substantially particle-free vapor or gas to escape upwards. Application to drying steam.

IPC 1-7

B04C 5/28; **B04C 3/00**; **F22B 37/32**

IPC 8 full level

B04C 3/00 (2006.01); **B04C 5/28** (2006.01); **F22B 37/32** (2006.01)

CPC (source: EP US)

B04C 3/00 (2013.01 - EP US); **B04C 3/04** (2013.01 - EP); **B04C 5/28** (2013.01 - EP US); **F22B 37/32** (2013.01 - EP US)

Cited by

DE10129198B4; FR2576224A2; FR2564750A1; EP0162441A3; US4650578A; US6620217B2

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