

Title (en)

Rotating heat transfer and thermal purification device for gaseous effluents.

Title (de)

Drehende Vorrichtung zur Wärmeübertragung und zum thermischen Reinigen von Abgasen.

Title (fr)

Dispositif rotatif de transfert de chaleur et d'épuration thermique appliqué à des effluents gazeux.

Publication

**EP 0684427 A1 19951129 (FR)**

Application

**EP 95401154 A 19950518**

Priority

FR 9406282 A 19940524

Abstract (en)

The rotary unit consists of a shell or cage (2) and a crown (1) containing a charge of a material with a large heat exchange surface, a drive to rotate the cage and crown relative to one another about a vertical axis, and at least one duct (5) for introducing the effluent gas into the cage and another (6) to remove it after treatment. The crown has at least one sector (A) to connect the inlet duct at any time with the central part of the cage, and a second sector (B) to connect it with the outlet duct. The central part of the crown has an aperture (8) for a thermal or catalytic reactor which burns off or converts pollutants contained in the gases passing through it. The charge of solid material can be in the form of cryogenic nodules. <IMAGE>

IPC 1-7

**F23G 7/06**; **F28D 19/04**

IPC 8 full level

**F23J 15/00** (2006.01); **F23G 7/06** (2006.01); **F23G 7/07** (2006.01); **F23J 15/08** (2006.01); **F28D 19/04** (2006.01)

CPC (source: EP KR US)

**F23G 7/06** (2013.01 - KR); **F23G 7/068** (2013.01 - EP US); **F28D 19/045** (2013.01 - EP US)

Citation (applicant)

FR 2564037 A1 19851115 - INST FRANCAIS DU PETROLE [FR]

Citation (search report)

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- [Y] PATENT ABSTRACTS OF JAPAN vol. 12, no. 155 (C - 494) 12 May 1988 (1988-05-12)

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