

Title (en)

PROCESS AND APPARATUS FOR COOLING HOT GAS CONTAINING STICKY OR MELTING PARTICLES

Publication

**EP 0341436 B1 19920701 (DE)**

Application

**EP 89106390 A 19890411**

Priority

DE 3816340 A 19880513

Abstract (en)

[origin: EP0341436A2] In this process, an annular jet of a cooling fluid is injected into the gas to be cooled in the direction of flow of the gas in a cooling zone, the jet being composed of a multiplicity of separate cooling fluid jets, whose mass and depth of penetration are adjusted to the product gas stream flowing in the individual annular spaces of the cooling zone, the injection speeds of the cooling fluid jets being selected such that the desired depths of penetration are reached. <IMAGE>

IPC 1-7

**C10J 3/84**; **C10K 1/04**; **F28C 3/02**

IPC 8 full level

**C10J 3/84** (2006.01); **C10K 1/04** (2006.01); **F28C 3/02** (2006.01)

CPC (source: EP US)

**C10J 3/84** (2013.01 - EP US); **C10K 1/04** (2013.01 - EP US); **C10K 1/08** (2013.01 - EP US); **Y10S 48/02** (2013.01 - EP US)

Cited by

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**EP 89106390 A 19890411**; CN 89100856 A 19890217; CS 272789 A 19890503; DD 32842289 A 19890509; DE 3816340 A 19880513; DE 58901759 T 19890411; ES 89106390 T 19890411; IN 96CA1989 A 19890131; PL 27841289 A 19890322; TR 37889 A 19890503; US 34733389 A 19890503; US 39213689 A 19890810; ZA 891401 A 19890223