

Title (en)

Improvement for eliminating the explosion risk in crushing installations

Title (de)

Verbesserung zur Beseitigung des Explosionsrisikos in einer Zerkleinerungsanlage

Title (fr)

Perfectionnement destiné à supprimer le risque d'explosion dans les installations de broyage

Publication

EP 0739653 A1 19961030 (FR)

Application

EP 95400936 A 19950426

Priority

EP 95400936 A 19950426

Abstract (en)

The process creates an atmosphere saturated with water, extending throughout an air suction flow carrying the powdered product of the grinder. The atmosphere contains between 90 and 95 percent water relative to its saturation point, in the form of a mist consisting of very fine droplets of water. Typically the mist contains between 10g and 40g of water per cubic metre of air. A water spray (13) is located at the outlet of the grinder (1), controlled by a regulating system (16) which measures and adjusts the level of relative humidity in the air suction flow (2) at the outlet of the assembly.

Abstract (fr)

L'invention concerne un perfectionnement destiné à supprimer les risques de d'explosions de poussières dans les installations de broyage caractérisé en ce qu'il consiste à créer une atmosphère contenant 70 à 100 % d'eau par rapport à la saturation dans toute la zone d'aspiration directe de l'air contenant des matières pulvérulentes, située en aval du broyeur. Elle concerne également l'installation de broyage industriel mettant en oeuvre ce procédé. <IMAGE>

IPC 1-7

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IPC 8 full level

B02C 13/31 (2006.01); **B02C 23/04** (2006.01); **B02C 23/20** (2006.01)

CPC (source: EP)

B02C 13/31 (2013.01); **B02C 23/04** (2013.01); **B02C 23/20** (2013.01)

Citation (search report)

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- [Y] PATENT ABSTRACTS OF JAPAN vol. 018, no. 601 (C - 1274) 16 November 1994 (1994-11-16)
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