

Title (en)

DEVICE FOR PNEUMATICALLY INJECTING PULVERULENT MATERIALS INTO A PRESSURE VESSEL, AND ITS USE IN INJECTING PULVERULENT COAL INTO A SHAFT FURNACE

Publication

EP 0212296 A3 19880302 (FR)

Application

EP 86110057 A 19860722

Priority

LU 86048 A 19850821

Abstract (en)

[origin: US4702288A] An apparatus is presented for the pneumatic injection of pulverulent materials into a pressurized vessel, comprising a storage silo, a distribution silo, a series of metering devices for extracting the pulverulent materials from the distribution silo, pneumatic conveying pipes connecting each of the metering devices to the vessel, and also a device for the automatic transfer of the pulverulent material from the storage silo (which is under substantially atmospheric pressure) to the distribution silo in which a pressure higher than that in vessel prevails. An important feature of the present invention is the presence of two intermediate silos each connected via automatic valves, upstream to the storage silo and, downstream, to the distribution silo; and by a pressurizing circuit connecting a source of inert gas under pressure through automatic valves to each of the intermediate silos.

IPC 1-7

C21B 5/00; B65G 53/66; B65G 53/12

IPC 8 full level

C21B 7/00 (2006.01); **B65G 53/66** (2006.01); **C21B 5/00** (2006.01)

CPC (source: EP US)

C21B 5/003 (2013.01 - EP US)

Citation (search report)

- [YD] EP 0079444 A1 19830525 - WURTH PAUL SA [LU]
- [Y] EP 0027909 A1 19810506 - KRUPP POLYSIUS AG [DE]
- [A] GB 324392 A 19300127 - POLYSIUS G
- [A] DE 544794 C 19320222 - POLYSIUS G AG
- [A] DE 862429 C 19530112 - MOELLER JOHANNES

Cited by

CN104541119A; EP0504581A3; EP0363656A1; WO2014006073A1; US10823506B2

Designated contracting state (EPC)

AT BE DE FR GB IT NL SE

DOCDB simple family (publication)

EP 0212296 A2 19870304; **EP 0212296 A3 19880302**; AU 6166786 A 19870226; BR 8604034 A 19870630; ES 2000788 A6 19880316; JP S6246814 A 19870228; LU 86048 A1 19870306; US 4702288 A 19871027; ZA 865791 B 19870624

DOCDB simple family (application)

EP 86110057 A 19860722; AU 6166786 A 19860820; BR 8604034 A 19860819; ES 8600706 A 19860730; JP 19038986 A 19860813; LU 86048 A 19850821; US 89852686 A 19860821; ZA 865791 A 19860801