

Title (en)

PROCESS AND APPARATUS FOR THE INJECTION OF SOLID FUEL INTO A SHAFT FURNACE

Publication

**EP 0022549 B1 19840516 (FR)**

Application

**EP 80103904 A 19800709**

Priority

LU 81519 A 19790717

Abstract (en)

[origin: US4325312A] A pulverized solid fuel is injected into a shaft furnace by being entrained in a stream of pressurized air, the resulting fuel-air mixture subsequently being further mixed with heated air being delivered to the furnace via a tuyere. The air used to entrain the pulverized fuel is diverted from the cold air supply to a mixing station, which is used to control the temperature of the hot air supplied to the furnace via the tuyere, and this diverted air is pressurized prior to the pulverized material entrainment.

IPC 1-7

**C21B 7/00**; **C21B 5/00**; **F27B 1/08**; **F23K 3/00**

IPC 8 full level

**C21B 5/00** (2006.01); **C21B 7/00** (2006.01); **F23K 3/00** (2006.01); **F27B 1/08** (2006.01)

CPC (source: EP US)

**C21B 5/003** (2013.01 - EP US)

Cited by

EP0077919A1; DE3441082A1; GB2163537A; FR2567997A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**US 4325312 A 19820420**; AR 221650 A1 19810227; AT E7515 T1 19840615; AU 536120 B2 19840419; AU 5962880 A 19810122; BR 8004523 A 19810203; CA 1150505 A 19830726; DE 3067831 D1 19840620; EP 0022549 A1 19810121; EP 0022549 B1 19840516; ES 494171 A0 19810316; ES 8103579 A1 19810316; JP S5616607 A 19810217; LU 81519 A1 19791031; PL 225726 A1 19810508; ZA 804195 B 19810729

DOCDB simple family (application)

**US 16661880 A 19800707**; AR 28156580 A 19800627; AT 80103904 T 19800709; AU 5962880 A 19800625; BR 8004523 A 19800717; CA 355497 A 19800704; DE 3067831 T 19800709; EP 80103904 A 19800709; ES 494171 A 19800716; JP 9744080 A 19800716; LU 81519 A 19790717; PL 22572680 A 19800717; ZA 804195 A 19800711