

Title (en)

Shaft furnace charging apparatus.

Title (de)

Schachtofenbeschickungsvorrichtung.

Title (fr)

Installation de chargement d'un four à cuve.

Publication

EP 0062770 A1 19821020 (FR)

Application

EP 82101944 A 19820311

Priority

LU 83279 A 19810403

Abstract (en)

[origin: CA1168442A] The delivery of charge material to the hearth of a pressurized blast furnace under the influence of gravity is accomplished without the necessity of changing the direction of material flow at a point exterior of the furnace. The rate of flow of the charge material, which moves in a vertical stream, is controlled by a metering device including a pair of overlapping register elements which define a variable size aperture which remains generally symmetrical with respect to the stream axis.

Abstract (fr)

L'installation comporte une trémie d'attente (46), un sas (28) et un organe de dosage et de fermeture (34) pour régler l'écoulement de la matière de chargement du sas (28) sur une goulotte rotative ou oscillante (22). Pour permettre un écoulement vertical et central sur la goulotte (22), le sas (28) et l'organe de fermeture et de dosage (34) sont montés sur l'axe vertical (0) de rotation de la goulotte (22), tandis que l'organe de fermeture et de dosage (34) est conçu pour s'ouvrir et se fermer symétriquement autour de cet axe (0).

IPC 1-7

C21B 7/20

IPC 8 full level

C21B 7/18 (2006.01); **C21B 7/20** (2006.01)

CPC (source: EP KR US)

C21B 7/20 (2013.01 - EP KR US); **F27B 1/20** (2013.01 - EP US); **F27D 3/10** (2013.01 - EP US); **F27D 2003/0007** (2013.01 - EP US)

Citation (search report)

- [AD] FR 2175452 A5 19731019 - WURTH ANCIENS ETS PAUL [LU]
- [AD] LU 82840 A1 19810202 - WURTH ANCIENS ETS PAUL
- [AD] FR 2317360 A1 19770204 - WURTH ANCIENS ETS PAUL [LU]
- [AD] FR 2443653 A1 19800704 - WURTH PAUL SA [LU], et al
- [A] LU 80113 A1 19790119
- [A] DE 1198840 C
- [A] DE 1295487 B 19690514 - KLEINKNECHT ALFRED
- [A] DE 2655983 B2 19790705
- [A] GB 316601 A 19290801 - CHARLES SKENTELBERY, et al
- [AP] Patent Abstracts of Japan, Vol. 5, No. 94, 19 Juin 1981 & JP-A-56 038 409

Cited by

DE3706654A1; AU584281B2; DE3809544A1; FR2613050A1; LU90452B1; EP0252342A1; DE3809547A1; FR2613049A1; TR26694A; CN112080309A; DE4404315C2; DE3809546A1; FR2613021A1; AU592253B2; DE3809534A1; FR2613051A1; EP0134918A1; AU592254B2; EP0997698A1; LU90308B1; EP0613955A1; US5411242A; CN1038736C; TR27694A; WO0121510A1; WO0123622A1; WO2010092132A1; US9031704B2; WO2010092122A1; US8666557B2

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