

Title (en)  
Method for controlling the charging of a shaft furnace.

Title (de)  
Verfahren zum Kontrollieren der Beschickung eines Schachtofens.

Title (fr)  
Procédé de contrôle du chargement d'un four à cuve.

Publication  
**EP 0204935 A1 19861217 (FR)**

Application  
**EP 86105644 A 19860423**

Priority  
LU 85892 A 19850510

Abstract (en)  
[origin: ES8703618A1] A process for controlling the charging of a shaft furnace of the type utilizing a distribution spout and one or more storage hoppers with each hopper being provided with a dosing device for regulating the flow of charging material from the hopper to the spout. The shaft furnace also includes a weighing system to determine the contents (weight) of the hopper and to adjust the position of the dosing device wherein the dosing valve is opened whenever the real flow  $Q_r$  is below the reference flow  $Q_c$  and is held in position when the real flow  $Q_r$  is above the reference flow  $Q_c$ .

IPC 1-7  
**C21B 7/18**; **F27B 1/20**

IPC 8 full level  
**C21B 7/18** (2006.01); **C21B 7/20** (2006.01); **F27B 1/20** (2006.01); **F27B 1/26** (2006.01); **F27D 3/10** (2006.01)

CPC (source: EP KR US)  
**C21B 7/18** (2013.01 - EP KR US); **C21B 7/20** (2013.01 - EP US); **F27B 1/20** (2013.01 - EP US)

Citation (search report)

- [A] JP S4913122 A 19740205
- [A] EP 0090923 A1 19831012 - KRUPP POLYSIUS AG [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 175 (C - 292)<1898> 19 July 1985 (1985-07-19)
- [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 273 (C - 256)<1710> 13 December 1984 (1984-12-13)
- [A] PATENT ABSTRACTS OF JAPAN vol. 006, no. 011 (C - 88)<889> 22 January 1982 (1982-01-22)
- [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 104 (C - 279)<1827> 8 May 1985 (1985-05-08)
- [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 171 (C - 291)<1894> 16 July 1985 (1985-07-16)
- [A] PATENT ABSTRACTS OF JAPAN vol. 005, no. 106 (C - 62)<778> 10 July 1981 (1981-07-10)

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Designated contracting state (EPC)  
AT BE DE FR GB IT NL SE

DOCDB simple family (publication)  
**EP 0204935 A1 19861217**; **EP 0204935 B1 19890322**; AT E41679 T1 19890415; AU 5687486 A 19861120; AU 574574 B2 19880707; BR 8602270 A 19870121; CA 1269831 A 19900605; CN 1006554 B 19900124; CN 86103226 A 19861105; CZ 320186 A3 19940119; DE 3662533 D1 19890427; ES 554736 A0 19870301; ES 8703618 A1 19870301; IN 165912 B 19900210; IN 167117 B 19900901; JP H0776372 B2 19950816; JP S61266512 A 19861126; KR 860009133 A 19861220; KR 930009386 B1 19931002; LU 85892 A1 19861205; SU 1493112 A3 19890707; US 4714396 A 19871222; ZA 863206 B 19870225

DOCDB simple family (application)  
**EP 86105644 A 19860423**; AT 86105644 T 19860423; AU 5687486 A 19860430; BR 8602270 A 19860508; CA 507894 A 19860429; CN 86103226 A 19860509; CS 320186 A 19860504; DE 3662533 T 19860423; ES 554736 A 19860507; IN 406DE1986 A 19860505; IN 469DE1986 A 19860528; JP 10754186 A 19860509; KR 860003656 A 19860510; LU 85892 A 19850510; SU 4027420 A 19860507; US 86208386 A 19860512; ZA 863206 A 19860429