

Title (en)  
DISCHARGING DEVICE FOR A SHAFT FURNACE

Publication  
**EP 0094928 B1 19860730 (DE)**

Application  
**EP 83890059 A 19830420**

Priority  
AT 195882 A 19820518

Abstract (en)  
[origin: US4507079A] Apparatus for discharging solids from a shaft furnace comprises a lock chamber structure, the interior of which is connected to the shaft furnace by a conveyor duct, and a rotor, which is rotatably mounted in the interior of the lock chamber structure and adapted to be driven and arranged to receive solids from the furnace and seals the inlet of the lock chamber from the outlet of the lock chamber. To permit a continuous discharge of solids from the furnace without an escape of gas from the furnace, the rotor consists of a cellular wheel, which has cell-defining walls in a star-shaped configuration. The conveyor duct is connected to a source of a compressed blocking gas. An exhaust gas duct communicates with the interior of the lock chamber structure adjacent to the conveying portion of the cellular wheel between the inlet and the outlet of the cellular wheel.

IPC 1-7  
**F27B 1/20**; **C21B 13/02**; **C21B 11/02**

IPC 8 full level  
**C21B 13/02** (2006.01); **F27B 1/21** (2006.01)

CPC (source: EP US)  
**C21B 13/02** (2013.01 - EP US); **F27B 1/21** (2013.01 - EP US)

Cited by  
AT14432U1; EP0652055A1; US5522153A

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

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**EP 0094928 A2 19831123**; **EP 0094928 A3 19840418**; **EP 0094928 B1 19860730**; AT 374275 B 19840410; AT A195882 A 19830815; CA 1212541 A 19861014; DE 3364880 D1 19860904; JP S58213180 A 19831212; US 4507079 A 19850326

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**EP 83890059 A 19830420**; AT 195882 A 19820518; CA 428307 A 19830517; DE 3364880 T 19830420; JP 8519583 A 19830517; US 49320483 A 19830510