

Title (en)  
CHARGING APPARATUS FOR A SHAFT FURNACE

Publication  
**EP 0012310 B1 19830907 (FR)**

Application  
**EP 79104836 A 19791203**

Priority  
LU 80646 A 19781212

Abstract (en)  
[origin: US4307987A] The profile of material deposited on the hearth of a pressurized furnace is controlled by means of a charging installation including a lower charging bell which has, suspended therefrom, a variable geometry distributor which may be controlled to select the point of deposition of material delivered to the furnace. The charging bell cooperates with an intermediate storage hopper, positioned within a hermetically sealable casing, whereby the hopper may be alternately filled with material and emptied by permitting the material to fall onto the distributor via an annular opening defined when the bell is lowered.

IPC 1-7  
**C21B 7/20**

IPC 8 full level  
**C21B 7/18** (2006.01); **C21B 7/20** (2006.01)

CPC (source: EP US)  
**C21B 7/20** (2013.01 - EP US)

Cited by  
DE4445845A1; RU2618304C1; EP0088253A1; US4512702A

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

DOCDB simple family (publication)  
**US 4307987 A 19811229**; AT E4601 T1 19830915; CA 1146750 A 19830524; DE 2966145 D1 19831013; EP 0012310 A1 19800625; EP 0012310 B1 19830907; ES 486746 A1 19800616; JP S5582706 A 19800621; JP S6328961 B2 19880610; LU 80646 A1 19790413; MX 150657 A 19840615; SU 963474 A3 19820930

DOCDB simple family (application)  
**US 5717479 A 19790713**; AT 79104836 T 19791203; CA 341040 A 19791203; DE 2966145 T 19791203; EP 79104836 A 19791203; ES 486746 A 19791211; JP 16139179 A 19791211; LU 80646 A 19781212; MX 18028879 A 19791203; SU 2850145 A 19791210