

Title (en)
COOLED TUYERE FOR SHAFT FURNACES

Publication
EP 0148983 B1 19880113 (DE)

Application
EP 84107748 A 19840704

Priority
DE 3400155 A 19840104

Abstract (en)
[origin: EP0148983A1] 1. Liquid-cooled, especially water-cooled tuyere for coke-controlled shaft furnaces, wherein, between inner shell and outer shell of the tuyere, a system of helically orientated ducts is disposed, of which one duct supplies the coolant to the tuyere head and one duct returns the coolant from the tuyere head, and an intermediate shell disposed between inner and outer shells separates the two ducts from each other and wherein the inner shell and outer shell are welded to each other directly or indirectly via a headpiece, characterized in that, for a tuyere internal diameter of - 80 to 120 mm, the difference from the outer diameter is less than 60 mm, - 120 to 180 mm, the difference from the outer diameter is less than 70 mm, - 180 to 250 mm, the difference from the outer diameter is less than 80 mm, - more than 250 mm, the difference from the outer diameter is less than 90 mm, and that between inner, outer and intermediate shells (15, 16, 31, 32), wires (18, 19) are disposed as a lateral boundary for the ducts.

IPC 1-7
C21B 7/16

IPC 8 full level
C21B 7/16 (2006.01)

CPC (source: EP)
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Cited by
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EP 0148983 A1 19850724; EP 0148983 B1 19880113; AT E31941 T1 19880115; DE 3468699 D1 19880218

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