

Title (en)

BLAST FURNACE HEARTH

Publication

EP 0300064 B1 19910417 (DE)

Application

EP 87110277 A 19870716

Priority

EP 87110277 A 19870716

Abstract (en)

[origin: EP0300064A1] By expansion of the hearth lining when a blast furnace is lit, the tuyeres fixed to the furnace casing are displaced and rotated about the fixed point. The displacements impair the furnace operation and steam escaping from damaged cooling devices destroys the tuyeres. The novel lining is intended to prevent relative movements of the tuyeres and to screen the lining from the tuyeres. Plate-shaped compressible inserts (7), consisting of a plurality of alternating layers of laminated graphite (8) and metal sheets (9), are arranged in the lining in contact with the tuyeres. The inserts are enveloped in copper foils (11) and fixed to the furnace casing. The inserts absorb the thermal expansion of the lining and protect the latter from steam. <IMAGE>

IPC 1-7

C21B 7/06

IPC 8 full level

C21B 7/06 (2006.01)

CPC (source: EP)

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Cited by

EP1676928A1; CN108728666A; US7744811B2; WO2006069747A3

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EP 0300064 A1 19890125; EP 0300064 B1 19910417; AT E62710 T1 19910515; DE 3769472 D1 19910523; ES 2018128 A4 19910401; ES 2018128 B3 19911201

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