

Title (en)

DOUBLE CIRCUIT LANCE FOR REFINING MOLTEN METALS

Publication

EP 0104326 A3 19840516 (DE)

Application

EP 83106221 A 19830625

Priority

DE 3231867 A 19820827

Abstract (en)

[origin: EP0104326A2] In a lance for refining molten metal, especially molten iron, with oxygen-containing gases, consisting of a central pipe (1), a plurality of concentric shell pipes (2, 3, 8, 9), a nozzle head (12) and a plurality of nozzles (7, 13) spaced apart vertically, several of the pipes (1, 3, 4) are yieldingly joined to one another, in order to compensate for thermal expansions. <IMAGE>

IPC 1-7

C21C 5/46

IPC 8 full level

C21C 5/46 (2006.01)

CPC (source: EP)

C21C 5/4606 (2013.01)

Citation (search report)

- [A] DE 1583208 B2 19730823
- [A] DE 1960782 A1 19720210 - DEMAG AG
- [A] DE 2131345 A1 19720113 - CENTRO SPERIMENTALE METALLURGICO SPA
- [A] DE 2103050 B2 19730503
- [A] GB 934112 A 19630814 - CONSETT IRON COMPANY LTD
- [A] US 3488044 A 19700106 - SHEPHERD WILLIAM E

Designated contracting state (EPC)

AT BE FR LU

DOCDB simple family (publication)

DE 3231867 A1 19840301; EP 0104326 A2 19840404; EP 0104326 A3 19840516

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