

Title (en)
PROCESS AND DEVICE FOR REMOVING IMPURITIES CONTAINED IN MELTED IRON FLOWING FROM SHAFT FURNACE.

Title (de)
VORRICHTUNG UND VERFAHREN ZUR BESEITIGUNG VON UNREINHEITEN AUS AUS EINEM SCHACHTOFEN FLIESENDEM GESCHMOLZENEN EISEN.

Title (fr)
PROCEDE ET DISPOSITIF D'EXTRACTION DES IMPURETES CONTENUES DANS DU FER EN FUSION S'ECOULANT D'UN FOUR A CUVE.

Publication
EP 0172913 A4 19860605 (EN)

Application
EP 85900768 A 19850204

Priority

- JP 1917784 A 19840204
- JP 1917884 A 19840204
- JP 1917984 A 19840204
- JP 1918084 A 19840204
- JP 1918184 A 19840204
- JP 1918284 A 19840204

Abstract (en)
[origin: WO8503525A1] A slag trough (2N) for removing molten shaft furnace slag isolated from melted iron by a skimmer (3) is provided upstream from the skimmer (3) mounted in midway on a molten iron trough (1), and at least two partition walls (4a, 4b, 4c) are provided at a predetermined distance in the trough (1) downstream from the skimmer (3), the trough (1) is thus partitioned into at least two reaction zones (6a, 6b, 6c), lances (8a, 8b, 8c) for blowing particular flux for removing the impurities contained in the molten iron via carrier gas are disposed substantially vertically above the two reaction zones, the lower ends of the lances are isolated substantially vertically from the surface of the melted iron, and branch slag troughs (9a, 9b, 9c) are respectively provided with at least two reaction zones (6a, 6b, 6c).

IPC 1-7
C21C 1/00; **C21C 1/02**; **C21C 1/04**; **C21B 7/14**

IPC 8 full level
C21B 7/14 (2006.01); **C21C 1/00** (2006.01); **F27B 1/21** (2006.01)

CPC (source: EP)
C21B 7/14 (2013.01); **C21C 1/00** (2013.01); **F27B 1/21** (2013.01)

Citation (search report)

- [Y] FR 1326751 A 19630510 - BROKEN HILL PTY CO LTD
- [X] FR 1576970 A 19690801
- [A] DE 1800131 B1 19710527 - CONZINC RIOTINTO LTD
- See references of WO 8503525A1

Cited by
FR2591232A1

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FR

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DE 3590051 C2 19870416; BR 8504996 A 19860121; DE 3590051 T 19860313; EP 0172913 A1 19860305; EP 0172913 A4 19860605; EP 0172913 B1 19900307; GB 2162860 A 19860212; GB 2162860 B 19880203; GB 8518758 D0 19850829; IN 165408 B 19891007; WO 8503525 A1 19850815

DOCDB simple family (application)
DE 3590051 A 19850204; BR 8504996 A 19850204; DE 3590051 T 19850204; EP 85900768 A 19850204; GB 8518758 A 19850204; IN 554MA1985 A 19850717; JP 8500046 W 19850204