

Title (en)

Oxygen steelmaking plant having a sub lance installation.

Title (de)

Oxigenstahlwerk mit Sublanzeneinrichtung.

Title (fr)

Aciérie à soufflage d'oxygène avec une installation de sub lance.

Publication

**EP 0258929 A1 19880309 (EN)**

Application

**EP 87201570 A 19870819**

Priority

NL 8602195 A 19860829

Abstract (en)

An oxygen steelmaking plant has a steel converter (4), a hood (5) for the converter, two arms (17,18) for carrying oxygen lances (7) pivotable to bring an oxygen lance above the converter, and a sub lance installation comprising a sub lance (10), a carriage (9) from which the sub lance (10) is suspended movable to transport the sub lance along a path which intersects the pivoting arms (17,18) and a pickup station (19) at which the sub lance picks up a sensor to be transported inside the converter to perform a measurement. The hood has a lance entrance hole (6) and a sub lance entrance hole (13). To enable the sub lance (10) to operate fully when the oxygen (7) lance is in operation, the hood (5) has a second sub lance entrance hole (14) and the sub lance installation has a second pickup station (20), the first said sub lance entrance hole (13) and the first said pickup station (19) on the one hand and the second sub lance entrance hole (14) and the second pickup station (20) on the other hand being located on opposite sides of the lance entrance hole (6), and the carriage (9) being arranged to transport the sub lance (10) to both said pickup stations (19,20) and both said sub lance entrance holes (13,14).

IPC 1-7

**C21C 5/46**; G01N 1/12

IPC 8 full level

**C21C 5/46** (2006.01)

CPC (source: EP)

**C21C 5/4673** (2013.01)

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- [Y] DE 1458837 A1 19690130 - DEMAG AG
- [Y] GB 2003590 A 19790314 - HOOGOVENS IJMUIDEN BV
- [A] EP 0113653 A1 19840718 - VOEST ALPINE AG [AT]
- [A] NL 7808461 A 19790531 - GUTEHOFFNUNGSHUETTE STERKRADE
- [A] GB 1322261 A 19730704 - ASHMORE BENSON PEASE & CO LTD

Cited by

CN113604625A; CN109777910A; EP0451987A3

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DE GB IT

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**EP 0258929 A1 19880309**; **EP 0258929 B1 19891018**; DE 3760812 D1 19891123; NL 8602195 A 19880316

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