

Title (en)

An apparatus for decarbonizing steels directly in the ladle.

Title (de)

Vorrichtung zum Entkohlen von Stählen zu der Pfanne.

Title (fr)

Appareillage pour la décarburation des aciers directement dans une poche.

Publication

**EP 0328851 A1 19890823 (EN)**

Application

**EP 88830057 A 19880216**

Priority

EP 88830057 A 19880216

Abstract (en)

An apparatus (1) for processing and hard vacuum decarbonizing special steels in the ladle comprises a vessel (2) having a lid (6) secured thereon in a tight sealed manner, a ladle (3) containing a pool (4) of molten steel to be treated and being introduced into the vessel (2) under a vacuum condition, and a retractable supersonic oxygen injector (13) fitting in a tight sealed manner through the lid (6) of the vessel (2) to blow oxygen onto the pool (4) of steel.

IPC 1-7

**C21C 7/068**; **C21C 7/10**

IPC 8 full level

**C21C 7/068** (2006.01); **C21C 7/10** (2006.01)

CPC (source: EP)

**C21C 7/0685** (2013.01); **C21C 7/10** (2013.01)

Citation (search report)

- [X] DE 1904442 A1 19700903 - HOESCH AG
- [Y] FR 2098781 A5 19720310 - SIDERURGIE FSE INST RECH
- [A] US 4057421 A 19771108 - FUKUI TAKASHI, et al
- [A] PATENT ABSTRACTS OF JAPAN, vol. 7, no. 108 (C-165)[1253], 11th May 1983; & JP-A-58 31 023 (SUMITOMO KINZOKU KOGYO K.K.) 23-02-1983
- [A] MAN UNTERNEHMENSBEREICH GHH STERKRADE; "Secondary metallurgy"

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AU653294B2; EP0514246A1; FR2676458A1; US5332417A; WO9220986A1

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