

Title (en)

METHOD AND DEVICE FOR REMOVAL OF ELEMENTS RESOLVED IN A METAL MELT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ENTFERNUNG VON IN EINER METALLSCHMELZE GELÖSTEN ELEMENTEN

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LE RETRAIT D'ÉLÉMENTS DISSOUS DANS UN BAIN FONDU MÉTALLIQUE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2008079015A1] Method for removal of elements from a metal melt in a container, which melt contains a base metal and elements of undesirable constituents, in which the metal melt is heated to a level maintaining the content melted. The metal melt is heated to a level causing vaporization of an element to be removed, but under the level providing gas pressure for the base metal. The container with the metal melt is brought under a reduced pressure in at least one compartment in which the temperature is maintained under the vaporization level of the element to be removed. A device for the removal of elements from metal melts, with a container (1) for the metal melt, with an exit tube (5) over the level of the metal melt, for vapour from the interior of the container (1). The exit tube (5) exits into a compartment (27) which is kept at a temperature under the vaporization temperature, for condensing the vaporized metal.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [A] KHABROV M F: "An Improvement in Vacuum Refining of Aluminum Alloys", LIGHT METAL AGE, FELLOW, SAN FRANCISCO, CA, US, vol. 40, no. 10, 1 October 1982 (1982-10-01), pages 33 - 34, XP009125438, ISSN: 0024-3345
- See references of WO 2008079015A1

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