

Title (en)

Non-consumable electrode, process of producing and use in producing aluminum.

Title (de)

Sich nichtaufbrauchende Elektrode, Herstellungsverfahren und Anwendung in der Aluminiumerzeugung.

Title (fr)

Electrode inconsumable, procédé de fabrication et utilisation dans la production d'aluminium.

Publication

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Application

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Priority

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Abstract (en)

The invention relates to non-consumable electrode having a substantially flat working surface suitable for use as an anode in molten salt electrolysis, particularly for the production of aluminum in Hall-Heroult reduction cells, is produced by a process wherein at least the portion of a conductive core that is exposed to the electrolyte bath is coated with a composition of higher resistivity than the core composition to provide uniform current density at all regions of the working surface of the anode. The invention also relates to the production of aluminum using such an electrode.

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