

Title (en)

Apparatus for treating a static aluminium bath of large surface area using gases.

Title (de)

Begasungsvorrichtung für ein stationäres Aluminium-Schmelzbad mit grosser Oberfläche.

Title (fr)

Dispositif de traitement au moyen de gaz d'un bain liquide d'aluminium de grande surface maintenu à l'état stationnaire dans un four.

Publication

**EP 0419378 B1 19940406 (FR)**

Application

**EP 90420406 A 19900917**

Priority

FR 8912540 A 19890920

Abstract (en)

[origin: US5028035A] An apparatus for gas treatment for a bath of liquid aluminum at rest in a furnace having a roof and in which the bath has a surface area of at least 10 m<sup>2</sup>. The apparatus comprises a movable gantry placed over the furnace and from which are suspended at least three gas injector assemblies which are more than 2 m long each. The injector assemblies are partially immersed in the bath through openings in the roof of the furnace and the immersed parts are separated from each other solely by the bath. The assemblies each comprise a rotary shaft having a rotor at its lower end joined to a plurality of blades. Through the axis of the shaft there is a cavity which opens above the furnace and which communicates at its lower end with passages in the blades. Means are provided above the furnace for rotating the shafts and for connecting the cavities to a source of treating gas. Each shaft is enclosed by a stator which extends from a point above the roof downwardly to a point close to the upper surface of the rotor to provide a space between the rotor and the stator which is adapted to be filled with the bath and to serve as a shock absorber.

IPC 1-7

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CPC (source: EP US)

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