

Title (en)
Method for melting of aluminium

Title (de)
Verfahren zum Schmelzen von Aluminium

Title (fr)
Procédé de mélange d'aluminium

Publication
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Application
EP 08004192 A 20080306

Priority
EP 08004192 A 20080306

Abstract (en)
The invention relates to a method for heating and melting of a starting material in a furnace by means of at least one burner which is operated with a fuel and an oxygen- containing gas, wherein said starting material contains a metal, especially aluminium, comprising the steps of a) heating said starting material up to the melting point of said metal, b) transforming said metal from the solid phase to the liquid phase, and c) superheating said liquid phase metal, which is characterized in that at least during a part of step b) the output power of said burner is controlled depending on the furnace temperature. Preferably the output power of said burner is a continuous function of the furnace temperature, wherein said burner output power is reduced with increasing furnace temperature.

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CPC (source: EP)
C22B 21/0084 (2013.01); **F27B 3/205** (2013.01); **F27B 3/28** (2013.01)

Citation (search report)

- [X] WO 0220859 A2 20020314 - SUMMER HERIBERT [AT]
- [X] WO 2004076924 A2 20040910 - EVANS THOMAS HUDSON [GB]
- [A] DATABASE WPI Week 198506, Derwent World Patents Index; AN 1985-034933, XP002493194

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DE102010029648A1

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