

## Title (en)

Method for determining the condition of a fire-resistant lining of a metallurgical melting vessel

## Title (de)

Verfahren zur Bestimmung des Zustandes einer feuerfesten Auskleidung eines metallurgischen Schmelzgefäßes

## Title (fr)

Procédé destiné à déterminer l'état d'un revêtement réfractaire d'une cuve de fusion métallurgique

## Publication

**EP 2789960 B1 20181219 (DE)**

## Application

**EP 13163565 A 20130412**

## Priority

EP 13163565 A 20130412

## Abstract (en)

[origin: CA2901222A1] The invention relates to a method for determining the state of a fire-resistant lining of a vessel (10) containing molten metal in particular. In the process, maintenance data, production data, and wall thicknesses at least at locations with the highest degree of wear are measured or ascertained together with additional process parameters of a vessel (10) after the vessel (10) has been used. Said data is then collected and stored in a data structure. A calculating model is generated from at least some of the measured or ascertained data or parameters, and said data or parameters are evaluated by means of the calculating model using calculations and subsequent analyses. Thus, related or integral ascertaining processes and subsequent analyses can be carried out, on the basis of which optimizations relating to both the vessel lining as well as the complete process of the molten metal in the vessel are achieved.

## IPC 8 full level

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**C21C 5/445** (2013.01 - EP KR US); **F27D 1/16** (2013.01 - US); **F27D 1/1636** (2013.01 - EP KR US); **F27D 1/1642** (2013.01 - EP KR US); **F27D 3/1509** (2013.01 - US); **F27D 3/1518** (2013.01 - EP KR US); **F27D 21/00** (2013.01 - RU); **F27D 21/0014** (2013.01 - US); **F27D 21/0021** (2013.01 - EP KR US); **F27D 21/0035** (2013.01 - US); **C21C 2005/448** (2013.01 - EP KR US); **F27D 2001/0046** (2013.01 - US)

## Citation (opposition)

Opponent : VESUVIUS GROUP, SA

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