

Title (en)

A method of making a zircon and mgo preheatable insulating refractory liner and methods of use thereof.

Title (de)

Verfahren zur Herstellung einer aus Zirkon und Magnesiumoxid bestehenden, vorwärmbaren isolierenden, feuerfesten Auskleidung und ihre Verwendung.

Title (fr)

Procédé pour la fabrication d'un garnissage réfractaire et isolant, pouvant être préchauffé à base du zircon et d'oxyde magnésium et son application.

Publication

**EP 0302975 A1 19890215 (EN)**

Application

**EP 87307164 A 19870813**

Priority

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Abstract (en)

Preheatable molded refractory insulating liners and methods of use thereof for lining vessels, such as hot tops, ladles, tundishes, troughs, and pipes, etc., which serve to transfer molten metals, such as ferrous alloys, are disclosed. The preheatable liners are suitable for developing effectively the required hot strength needed for casting molten metals at both vessel preheat temperatures and casting temperatures. The preheatable liners additionally possess the needed hot strength during the range of casting temperatures as are experienced in the metal making industry. The preheatable molded refractory insulating liners comprise a liner structure of predetermined shape, the liner structure comprising a molded uniform mixture containing a particulate refractory component comprised of zircon and MgO refractory grain and a binder thereof wherein the zircon and MgO refractory grain are in amounts proportioned such that the hot strength is developed at vessel preheat and metal casting temperatures which are in the range of about 1900 DEG F. to about 3000 DEG F. when such liners are heated for sufficient periods of time.

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CPC (source: EP)

**B22D 7/102** (2013.01); **B22D 41/02** (2013.01)

Citation (search report)

- [XD] US 3303032 A 19670207 - HOLT JOHN P, et al
- [AD] US 3192059 A 19650629 - GOOD WILLIAM R, et al

Cited by

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