

Title (en)
Lumped skull lining material

Title (de)
Schüttgut zur Bildung einer Schlackenauskleidung

Title (fr)
Additif en vrac pour la protection des réfractaires

Publication
EP 2031077 A1 20090304 (EN)

Application
EP 08104234 A 20080603

Priority
UA A200709095 A 20070807

Abstract (en)
FIELD: The applied for invention lumped skull lining material relates to the ferrous metallurgy, in general, and to blast-furnace manufacture, in particular. It may be used while cast iron production in blast-furnaces. ESSENCE: The applied for invention skull lining material contains a titanium containing component and a flux component. The titanium containing component includes grains of ilmenite and/or pseudobrukite, and/or perovskite. The flux component is a connecting component and generally consists of alum silicates, calcium alum silicates and calcium alum ferrites, wherein content of the structural components is: grains of ilmenite and/or pseudobrukite, and/or perovskite 51 -60%, vol. flux connection 15 - 35 %, vol. pores the rest TECHNICAL EFFECT: The invention brings to the effective technical result which is effective guide of strong durable skull lining in blast-furnace metal receiver without any substantial disturbances into the melting process provided by the applied for invention changes in mineralogical composition and structure of the skull lining material aimed at ensuring its main properties.

IPC 8 full level
C21B 7/04 (2006.01); **C21B 3/02** (2006.01); **C21B 5/00** (2006.01)

CPC (source: EP)
C21B 7/06 (2013.01); **F27D 1/0006** (2013.01)

Citation (search report)
• [A] RU 2223329 C1 20040210
• [A] KURUNOV I F ET AL: "Methods of extending a blast-furnace campaign", METALLURGIST, KLUWER ACADEMIC PUBLISHERS-PLENUM PUBLISHERS, NE, vol. 50, no. 11-12, 1 November 2006 (2006-11-01), pages 605 - 613, XP019506205, ISSN: 1573-8892

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EP 2031077 A1 20090304; **EP 2031077 B1 20100310**; AT E460502 T1 20100315; DE 602008000782 D1 20100422; UA 88348 C2 20091012

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