

Title (en)

Crucible liner and method of making and using the same.

Title (de)

Tiegelaukleidung und Verfahren zur Herstellung sowie Gebrauch derselben.

Title (fr)

Revêtement de creuset et procédé de fabrication ainsi que son utilisation.

Publication

**EP 0096985 A1 19831228 (EN)**

Application

**EP 83302991 A 19830524**

Priority

US 39317782 A 19820628

Abstract (en)

An improved crucible liner maintains a relatively thick reaction layer (34) on the inside of the crucible during pouring of a molten nickel chrome alloy. By maintaining a thick reaction layer inside the liner, the transfer of impurities from the crucible to a cast article is minimized. The liner is formed by impregnating the inside of the refractory liner (32) with an alkaline earth oxide such as calcium or magnesium. When a nickel chrome alloy is melted in the crucible liner, the alloy reacts with the liner and the alkaline earth oxide. The reaction products are deposited on the surface of the liner (11) and adhere to the surface of the liner during pouring.

IPC 1-7

**F27B 14/10**; F27D 1/16; C04B 41/22

IPC 8 full level

**F27B 14/10** (2006.01); **F27D 1/10** (2006.01); **F27D 1/16** (2006.01); **F27D 1/00** (2006.01)

CPC (source: EP)

**F27B 14/10** (2013.01); **F27D 1/10** (2013.01); **F27D 1/16** (2013.01); **F27B 2014/104** (2013.01); **F27D 1/0006** (2013.01)

Citation (search report)

- [A] DE 2038442 B2
- [A] GB 2019988 A 19791107 - COCKERILL
- [AD] US 3401227 A 19680910 - DUNLEVY BARRY O, et al
- [AP] EP 0065034 A1 19821124 - HAGENBURGER CHAMOTTE TON [DE]

Cited by

EP1990593A1; US9802243B2; US10391547B2; US9803923B2; US8236232B2

Designated contracting state (EPC)

BE CH DE FR GB IT LI SE

DOCDB simple family (publication)

**EP 0096985 A1 19831228**; IL 68865 A0 19831031; JP S5921979 A 19840204

DOCDB simple family (application)

**EP 83302991 A 19830524**; IL 6886583 A 19830602; JP 11680683 A 19830628