

Title (en)

PROCESS AND DEVICE FOR PRODUCING STEEL CASTING LADLE MONOLITHIC FIRE-PROOF LINING

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG EINER MONOLITHISCHEN FEUERFESTEN AUSKLEIDUNG VON STAHLGIESSPFANNEN

Title (fr)

PROCEDE ET DISPOSITIF DE FABRICATION D'UN REVETEMENT MONOLITHIQUE IGNIFUGE DE POCHES A ACIER EN FUSION

Publication

**EP 0741854 B2 20020828 (DE)**

Application

**EP 95908262 A 19950203**

Priority

- DE 4403270 A 19940203
- EP 9500399 W 19950203

Abstract (en)

[origin: DE4403270C1] When the wall and bottom of a steel casting and handling ladle are provided at the same time with a refractory monolithic lining, the lining in the lower area of the wall is often damaged during intermediate repairs of the bottom. According to a new process, wall and bottom are lined one after the other. A hose-like inflatable sealing body is secured to the bottom part of the template (4) when beginning to introduce the casting mass in the wall area and is inflated so that it seals the template (4) up to the height that corresponds to the desired thickness of the bottom. As soon as the casting mass in the lower wall area is sufficiently set, the sealing body (2) is deflated and removed, then the refractory casting mass is introduced into the bottom area up to the desired height. This process is suitable for steel casting and handling ladles and for similar metallurgical vessels.

IPC 1-7

**F27D 1/16**; **B22D 41/02**

IPC 8 full level

**B22D 41/02** (2006.01); **F27D 1/16** (2006.01)

CPC (source: EP US)

**B22D 41/023** (2013.01 - EP US)

Citation (opposition)

Opponent :

- JP H0389392 U 19910911
- "Stahl und Eisen Special", Oktober 1992, S. 103-108

Designated contracting state (EPC)

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DOCDB simple family (publication)

**DE 4403270 C1 19950504**; **DE 4403270 C2 20000224**; CZ 228696 A3 19970312; CZ 284816 B6 19990317; DE 59501914 D1 19980520; EP 0741854 A1 19961113; EP 0741854 B1 19980415; EP 0741854 B2 20020828; ES 2116728 T3 19980716; ES 2116728 T5 20030401; FI 111878 B 20030930; FI 963061 A0 19960802; FI 963061 A 19961001; PL 178274 B1 20000331; PL 315680 A1 19961125; US 5993703 A 19991130; WO 9521364 A1 19950810; ZA 95856 B 19960220

DOCDB simple family (application)

**DE 4403270 A 19940203**; CZ 228696 A 19950203; DE 59501914 T 19950203; EP 9500399 W 19950203; EP 95908262 A 19950203; ES 95908262 T 19950203; FI 963061 A 19960802; PL 31568095 A 19950203; US 69197896 A 19960802; ZA 95856 A 19950203