

Title (en)
ELONGATED OUTLET NOZZLE FOR A TUNDISH

Publication
EP 0083745 B1 19850529 (DE)

Application
EP 82111469 A 19821210

Priority
DE 3151533 A 19811224

Abstract (en)
[origin: US4479594A] A pouring nozzle for an intermediate container of a strang casting device has a body part of a refractory material arranged in an opening of a bottom of the intermediate container, an elongated piece of refractory material associated with the body part and extending in the interior of the intermediate container, and a breakage point provided between the body part and the elongated piece at a height of the bottom of the intermediate container.

IPC 1-7
B22D 11/10; **B22D 41/02**; **B22D 41/08**

IPC 8 full level
B22D 11/10 (2006.01); **B22D 41/02** (2006.01); **B22D 41/08** (2006.01); **B22D 41/50** (2006.01)

CPC (source: EP KR US)
B22D 11/00 (2013.01 - KR); **B22D 41/08** (2013.01 - EP US); **B22D 41/50** (2013.01 - EP US)

Citation (opposition)
Opponent : Didier-Werke AG
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• US 2770856 A 19561120 - BECKER ADAM W, et al
• JP S54155913 A 19791208 - PECHINEY ALUMINIUM
• DE 2653213 A1 19780420 - DAUSSAN ET COMPAGNIE S A
• HERRN DR. ING. GÜNTER, ALTLAND IN DEM BRIEF AN DIE METACON AG, 30 November 1981 (1981-11-30)
• "Feuerfeste Stoffe im Stranggießbereich, Vorträge, gehalten bei der Europäischen Tagung über feuerfeste Stoffe im Stranggießbereich", GEMEINSCHAFTSAUSSCHUSS FEUERFESTE STOFFE DES VEREINS DEUTSCHE R EISENHÜTT- ENLEUTE, 10 March 1982 (1982-03-10), Düsseldorf, pages 161 ff., XP055278588
• HERR ROLF W. VOSS ET AL.: "Offenkundige Vorbenutzung durch Gießversuche mit dem METACON-Schieber- verschluß C 51", WERK RUHRT
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• "METACON automatisiert den Gießvorgang beim Strang- gießen", METACON-PROSPEKT, 1978

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Designated contracting state (EPC)
AT BE FR GB IT LU NL

DOCDB simple family (publication)
EP 0083745 A1 19830720; **EP 0083745 B1 19850529**; AT E13496 T1 19850615; BR 8207485 A 19831018; DE 3151533 A1 19830714; DE 3151533 C2 19831124; ES 517960 A0 19850316; ES 8503538 A1 19850316; JP S58132358 A 19830806; JP S5944141 B2 19841026; KR 840002672 A 19840716; US 4479594 A 19841030; ZA 829021 B 19830928

DOCDB simple family (application)
EP 82111469 A 19821210; AT 82111469 T 19821210; BR 8207485 A 19821223; DE 3151533 A 19811224; ES 517960 A 19821206; JP 18764882 A 19821027; KR 820005663 A 19821217; US 42727182 A 19820929; ZA 829021 A 19821208