

Title (en)
CASTING ROLL FOR TWIN ROLL STRIP CASTER

Title (de)
GIESSROLLE FÜR DOPPELROLLENGIESSVORRICHTUNG FÜR BÄNDER

Title (fr)
ROULEAU DE COULAGE POUR DISPOSITIF DE COULAGE EN BANDE MINCE À DEUX ROULEAUX

Publication
EP 2046516 A4 20100526 (EN)

Application
EP 07768877 A 20070726

Priority
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Abstract (en)
[origin: WO2008016235A1] Disclosed is a casting roll for a twin roll strip caster, and particularly, a casting roll for a twin roll strip caster, in which a continuous gas channel, for preventing the generation of dents in the surface of a strip when casting TWIP steel in order to improve the mechanical properties of the strip, including increasing the tensile strength and elongation, is formed in the surface of the casting roll, thus discharging gas mixed when the strip is cast, thereby preventing the generation of dents in the surface of the strip when casting the TWIP steel, in particular, a continuous gas channel is formed, thereby decreasing a conventional dent index and discouraging the generation of dents.

IPC 8 full level
B22D 11/06 (2006.01)

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Citation (search report)
• [XY] US 5807444 A 19980915 - PARADIS PHILIPPE [FR], et al
• [Y] US 3345738 A 19671010 - MIZIKAR EUGENE A, et al
• [A] JP H04238654 A 19920826 - NIPPON STEEL CORP
• [A] KR 20020051306 A 20020629 - INST OF IND SCIENCE POHANG [KR], et al
• [A] WO 9308941 A1 19930513 - DAVY MCKEE POOLE [GB]
• [A] EP 0309247 A2 19890329 - NIPPON STEEL CORP [JP], et al
• [A] JP 2002113558 A 20020416 - NIPPON STEEL CORP
• [A] JP H05261487 A 19931012
• [A] US 6491089 B1 20021210 - POIRIER FRANCOIS [FR], et al
• See references of WO 2008016235A1

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