

Title (en)  
ROLL FOR TWIN-ROLL CONTINUOUS CASTING WITH COOLING FLUID CIRCULATION

Publication  
**EP 0219443 B1 19890308 (FR)**

Application  
**EP 86440077 A 19860912**

Priority  
FR 8513776 A 19850917

Abstract (en)  
[origin: US4671340A] This invention relates to a roller for continuous casting between rollers, with circulation of cooling fluid. In this roller, comprising a cylindrical body surrounded by an envelope, the cooling fluid circulation channels disposed circumferentially between the body and the envelope, are constituted by groups of grooves on the inner surface of the envelope extending over arcs of circumference, and organizing the circulation in distinct angular sectors corresponding to each group. Axial throats are provided between the body and the envelope at the ends of each sector, and into which open out, on the one hand, radial fluid admission and return pipes passing through the body, and, on the other hand, the grooves of a group by one of their ends, the throats being in a number double that of the angular sectors.

IPC 1-7  
**B22D 11/06**

IPC 8 full level  
**B22D 11/06** (2006.01); **B22D 11/128** (2006.01)

CPC (source: EP US)  
**B22D 11/0682** (2013.01 - EP US)

Cited by  
EP0680795A1; CN1072057C; EP0694356A1; FR2723014A1; FR2799399A1; KR100698335B1; EP0471279A3; AP1403A; US6776216B1; WO0124958A1; WO9850183A1

Designated contracting state (EPC)  
AT BE CH DE GB LI LU SE

DOCDB simple family (publication)  
**US 4671340 A 19870609**; AT E41113 T1 19890315; CA 1282936 C 19910416; DE 3662236 D1 19890413; EP 0219443 A2 19870422; EP 0219443 A3 19870506; EP 0219443 B1 19890308; FR 2587247 A1 19870320; FR 2587247 B1 19880812; IT 1197148 B 19881125; IT 8621574 A0 19860902; IT 8621574 A1 19880302; JP S62110852 A 19870521

DOCDB simple family (application)  
**US 90682786 A 19860912**; AT 86440077 T 19860912; CA 518283 A 19860916; DE 3662236 T 19860912; EP 86440077 A 19860912; FR 8513776 A 19850917; IT 2157486 A 19860902; JP 21907286 A 19860917