

Title (en)
Roll arrangement with cooling

Title (de)
Rollenanordnung mit Kühlung

Title (fr)
Dispositif de rouleaux avec refroidissement

Publication
EP 0706842 A1 19960417 (EN)

Application
EP 95306858 A 19950928

Priority
GB 9419808 A 19940930

Abstract (en)
The rolls (2) of a hot rolling mill are supported in bearings (6) which are cooled by water jets. The water jets are applied to each end of the roll in a region shielded by a fixed cowl (20). Between the water jets and the roll main body, in each instance there is a collar (36) integral with the roll, and the side (38) of the collar facing the main body tapers radially inwardly towards the main body. The cowl preferably terminates at a spacing from the main body, intermediate the axial extent of said tapering side of the collar. By these means, it is possible to hinder or prevent cooling water escaping from the ends of the roll to reach the main body of the roll. <IMAGE>

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B21B 39/00; **B21B 31/07**

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B21B 31/076 (2013.01); **B21B 39/008** (2013.01); **B21B 2027/103** (2013.01)

Citation (applicant)
GB 1603428 A 19811125 - ENCOMECH ENG SERVICES LTD

Citation (search report)
• [Y] DE 712156 C 19411014 - KRUPP AG
• [Y] FR 841016 A 19390509 - EST ACIERS FINS
• [A] DE 347193 C 19220119 - ANTON SCHOEPP DIPL ING
• [A] DE 1041898 B 19581030 - UNITED ENG FOUNDRY CO
• [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 78 (M - 570) 10 March 1987 (1987-03-10)

Cited by
CN102294359A; CN107081340A

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