

Title (en)  
INTERNALLY COOLED ROLL AND METHOD FOR MANUFACTURING THE SAME

Publication  
**EP 0312744 A3 19891206 (DE)**

Application  
**EP 88114237 A 19880901**

Priority  
DE 3735884 A 19871023

Abstract (en)  
[origin: EP0312744A2] The invention relates to an internally cooled roll in which at least one helical coolant channel (2, 2') is recessed into the core of the roll. The coolant channel (2, 2') is covered by a profile element (7, 7') which, in cross-section, has the shape of a circular surface from which a segment has been cut. The profile element (7, 7') is welded to the core (1) on both sides of the coolant channel (2, 2'). A filling (8) of welding material is provided between adjacent sections of the profile element (7, 7'). The profile element (7, 7') and the filling (8) of welding material are covered with a wearing layer (9). <IMAGE>

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**B22D 11/124; B22D 11/16**

IPC 8 full level  
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CPC (source: EP)  
**B22D 11/1287** (2013.01)

Citation (search report)  
• [A] DE 3326746 A1 19850214 - WIEGARD GUSTAV [DE]  
• [AD] DE 3231433 C2 19850711  
• [A] PATENT ABSTRACTS OF JAPAN, Band 10, nr 189 (M-494) (2245), 3.Juli 1986; & JP-A-61 033747 (KAWASAKI STEEL CORP.) 17.02.1986

Cited by  
AT396759B; US8845501B2

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AT FR GB IT SE

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