

Title (en)

Wear-resistant roll and method of making it

Title (de)

Verschleissfeste Rolle und Verfahren für deren Herstellung

Title (fr)

Cylindre à revêtement résistant à l'usure et procédé pour sa fabrication

Publication

EP 2572790 A1 20130327 (EN)

Application

EP 11182178 A 20110921

Priority

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Abstract (en)

Roll (1,2) for a roller press comprises a cylindrical press roll having an outer cylindrical pressing surface for use with an opposing roll, and a plurality of wear-resistant surface members (studs) (6), whereby the studs are fixed to the roll and the free ends of the studs protrude radially from the surface of the roll, and whereby the spaces between the studs are filled with a matrix material (12) being softer than the hardest material of which the studs are made. According to the invention the matrix material is a composite material comprising a non-metallic, organic binding mass. The roll is therefore easy and cost-effective producible and allows the application of long studs and can furthermore easily be repaired on-site without using sophisticated process equipment. The final roll surface is smooth.

IPC 8 full level

B02C 4/30 (2006.01)

CPC (source: EP)

B02C 4/305 (2013.01)

Citation (applicant)

- EP 2239058 A2 20101013 - MEC HOLDING GMBH [DE]
- DE 202004007809 U1 20040916 - CASTOLIN GES M B H [AT]

Citation (search report)

- [X] EP 0516952 A1 19921209 - KLOECKNER HUMBOLDT DEUTZ AG [DE]
- [AD] EP 2239058 A2 20101013 - MEC HOLDING GMBH [DE]

Cited by

CN111760636A; WO2015165942A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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