

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 B1 20181107 (EN)

Application

EP 11182178 A 20110921

Priority

EP 11182178 A 20110921

Abstract (en)

[origin: EP2572790A1] 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)

Cited by

CN111760636A; WO2015165942A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2572790 A1 20130327; EP 2572790 B1 20181107

DOCDB simple family (application)

EP 11182178 A 20110921