

Title (en)

GRINDING ROLLER AND METHODS FOR PULLING OFF A STRAP AND SHRINKING A STRAP ONTO THE SHAFT OF THE GRINDING ROLLER

Title (de)

MAHLWALZE UND VERFAHREN ZUM ABZIEHEN EINER BANDAGE UND AUFCHRUMPFEN EINER BANDAGE AUF DIE WELLE DER MAHLWALZE

Title (fr)

ROULEAU BROYEUR ET PROCÉDÉ DE RETRAIT D'UN BANDAGE ET DE RÉTRACTION D'UN BANDAGE SUR L'ARBRE DU ROULEAU BROYEUR

Publication

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Application

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Abstract (en)

[origin: WO2016128274A1] The invention relates to a grinding roller (2) of a high-pressure roller press, comprising a shaft (1) and a wear-resistant strap (3), wherein the strap (3) is frictionally shrunk onto the shaft (1). The invention further relates to a method for separating a strap (3) and a shaft (1) in the case of such a grinding roller (2) and to a method for frictionally connecting a strap (3) and a shaft (1) in order to form such a grinding roller (2). According to the invention, the shaft (1) has a plurality of cooling bores (5) passing through in the axial direction for gaseous or liquid coolant to flow through said cooling bores, wherein the cooling bores (5) are arranged in the outer region of the shaft (1). Furthermore, in order to separate the strap (3) from the shaft (1), according to the invention, the strap (3) is heated by supplying heat from outside, the shaft (1) is simultaneously cooled by means of a coolant flowing through the cooling bores (5), and the strap (3) is pulled off from the shaft (1) in the longitudinal direction.

IPC 8 full level

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