

Title (en)

ROLL RING ARRANGEMENT HAVING A ROLL RING AND A ROLL SHAFT

Title (de)

WALZRINGANORDNUNG MIT EINEM WALZRING UND EINER WALZENWELLE

Title (fr)

DISPOSITIF DE CYLINDRE DE LAMINAGE POURVU D'UN CYLINDRE DE LAMINAGE ET D'UN ARBRE DE CYLINDRE

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Application

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Abstract (en)

[origin: WO2018065617A1] The invention relates to a roll ring arrangement having a roll ring (1) and a roll shaft (2) on which the roll ring (1) is arranged fixed in rotation and which has a thread region (11) that is located axially next to the roll ring (1) when seen toward the free end of the roll shaft (2), wherein a nut (12) screwed onto the thread region (11) exerts an axial clamping stress on the roll ring (1). A roll ring arrangement of this kind is to be improved to the effect that the roll ring can be axially clamped on the roll shaft in a rotationally fixed manner without the use of an additional hydraulic clamping device. This is achieved with a sleeve-like clamping element (8) which is arranged between the roll ring (1) and the thread region (11) and which is designed with a front collar (13) facing the thread region (11) and a rear collar (17), wherein on one hand the rear collar (17) bears with a friction fit on the roll ring (1) and on the other hand an involute spline profile (7), formed in the middle section between the two collars (13, 17), of the clamping element (8) is arranged in a form-fitting manner on an involute spline profile (5) of the roll shaft (2), wherein the sleeve-like clamping element (8) can be pressed against the roll ring (1) by the clamping nut (12) screwed onto the thread region (11).

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