

Title (en)
SPINNING STEEL RING FOR RING FRAMES AND CONTINUOUS RING TWISTS

Publication
EP 0020399 B1 19830629 (DE)

Application
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Priority
CH 999578 A 19780925

Abstract (en)
[origin: WO8000718A1] The spinning steel ring (1) is partially hardened, that is to say in a local area (8) of the ring wherein there is provided a traveller flange (2) with its guiding surface (3). This area (8) is comprised of an outer softer running-in layer (11) and of a hardened core (9). The running-in layer (11) comprises a superficial layer of iron nitride (7) which gradually transforms into an austenitic and martensitic transition layer (10) containing nitrogen of which the austenite contents decreases inwardly, thereby enhancing the hardness. After the iron nitride layer (7) has been worn, the traveller may slide onto the transition layer (10) of which the hardness increases gradually and which becomes more resistant as it wears. In this manner, the running in time is considerably reduced and it allows without any trouble after the running-in. The dimensions of the spinning ring (1) are strictly maintained due to the fact that the hardening is limited to the area (8).

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D01H 7/60; C21D 9/40

IPC 8 full level
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Cited by
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WO 8000718 A1 19800417; AR 222192 A1 19810430; BE 878998 A 19800325; DE 2965796 D1 19830804; EP 0020399 A1 19810107; EP 0020399 B1 19830629; ES 484725 A1 19801001; HK 70184 A 19840921; IN 151786 B 19830730; IT 1123319 B 19860430; IT 7925971 A0 19790925; JP S55500668 A 19800918

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