

Title (en)
ROLL STAND FOR PRODUCING PLANE ROLL STRIPS HAVING A DESIRED STRIP PROFILE SUPERELEVATION

Title (de)
WALZGERÜST ZUR HERSTELLUNG PLANER WALZBÄNDER MIT GEWÜNSCHTER BANDPROFILÜBERHÖHUNG

Title (fr)
CAGE DE LAMINOIR POUR LA PRODUCTION DE FEUILLARDS LAMINES PLANS PRESENTANT UN SURHAUSSEMENT DE PROFIL DE FEUILLARD DESIRE

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Application
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Abstract (en)
[origin: US2004040358A1] The aim of the invention is to improve known roll stands (10) which are characterised by working rolls (1, 2) of various diameters, in such a way that a strip is obtained which is largely free of tensions and undulations, has a desired strip profile superelevation, and can be used approximately universally. To this end, the support rolls (3, 4) and the working rolls (1, 2) are arranged in an axially displaceable manner in the roll stand (10, 11), the position of at least one of the working rolls (1, 2) can be adjusted in the discharge direction (7) of the roll strip (6), and that the support rolls (3, 4) and the working rolls (1, 2) are provided with a curved contour (continuously variable crown which is determined by an at least second order polynomial) which extends essentially over the whole surface length of the roll, said contours being staggered by 180° in relation to each other and respectively embodied in such a way that both contours of the working rolls (1, 2) complete each other to form a symmetrical contour of the roll gap.

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Citation (search report)
See references of WO 02058860A1

Cited by
DE102014108823A1; DE102014108823B4; DE102014108823B9; DE102009037278A1; WO2011018217A2; US9782809B2; EP3141335A1; US11400511B2

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