

Title (en)
COLD ROLLING APPARATUS AND METHOD FOR COLD ROLLING

Title (de)
KALTWALZMASCHINE UND KALTWALZVERFAHREN

Title (fr)
APPAREIL DE LAMINAGE À FROID ET PROCÉDÉ DE LAMINAGE À FROID

Publication
EP 2500114 A4 20130612 (EN)

Application
EP 09851110 A 20091109

Priority
JP 2009069064 W 20091109

Abstract (en)
[origin: EP2500114A1] Disclosed are cold-rolled material manufacturing equipment and a cold rolling method by which a high efficiency, a high yield and a high investment cost-effectiveness are realized in a small- to medium-scale plant with a capacity of about 300,000 to 600,000 tons of product per year. A strip of a coil 101a unwound from a unwinding device 2 is guided directly to a cold rolling mill 1 to be rolled and then wound onto a winding/unwinding device 4. Upon arrival of the tail end of the coil 101a at a joining device 5, the coil 101a and the leading end of a coil 101b subsequently unwound from the unwinding device 2 are joined. Subsequently, rolling and joining for the coil 101b and following coils are repeated to perform first-pass rolling by the cold rolling mill 1 and joining by the joining device 5, thereby forming a plurality of coils into one buildup coil 102. The buildup coil 102 is subjected to reversible rolling a predetermined number of times until a desired product strip thickness is reached. In the final pass, the buildup coil 102 is cut by a cutting device 6a or 6b, to form a plurality of coils 103.

IPC 8 full level
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Citation (search report)
[X] WO 2005056206 A1 20050623 - SMS DEMAG AG [DE], et al

Cited by
CN112969540A; US11400497B2; CN103447313A; CN105964688A; US10016799B2; US10259027B2

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