

Title (en)
DEVICE AND METHOD FOR COOLING OF ROLLS

Publication
EP 0313516 B1 19920415 (DE)

Application
EP 88810680 A 19881003

Priority
CH 416787 A 19871023

Abstract (en)
[origin: US4934444A] The device serves to cool rolls (10, 12), especially in continuous strip casting and in rolling metals. The rolls are covered by hoods, each of which extends from the vicinity of roll nip (26) over a portion of roll surface (28). Spray devices are also provided for supplying a cooling medium (56) to parts of the roll surface. Liquid cooling medium (56) is collected and carried away in the lower part of hood (30). Hoods (30) are sealed off from the corresponding rolls (10, 12). A plurality of spray devices (32) in hood (30) serves to supply an at least partly liquid cooling medium (56) and extends axially over the entire length of the roll. Devices for removing liquid cooling medium (56) from roll surface (28) conduct the latter into a drain or suction device. Spray devices (32) and devices for removing cooling medium (56) are arranged individually or alternately in groups, with removal devices provided at both ends to remove cooling medium (56). Roll surface (28) is preferably cooled with increasing intensity in the direction away from roll nip (26).

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IPC 8 full level
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CPC (source: EP US)
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Cited by
DE102018212168A1; EP2581150A1; CN108421828A; DE102012101474A1; EP2014379A1; CN101912881A; CN103874553A; CN107427876A; KR20200016392A; RU2729794C1; US10953447B2; US8438891B2; WO2019241551A1; WO2013053506A1; WO2008149195A1; US10814365B2; WO2020020683A1; US9457397B2; US11007557B2; WO2013053507A1

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