

Title (en)
INDUCTION HEATED ROLL APPARATUS

Title (de)
INDUKTIONSERWÄRMTE WALZENVORRICHTUNG

Title (fr)
APPAREIL DE ROULEAU CHAUFFÉ PAR INDUCTION

Publication
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Application
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Abstract (en)
[origin: EP3934381A1] The present invention, for simplifying a piping structure of a cooling pipe for cooling a cylindrical iron core, includes: a roller main body (2) that is rotatably supported; a cylindrical iron core (31) provided inside the roller main body (2); an induction coil (32) wound around an outer peripheral surface of the cylindrical iron core (31); and a cooling pipe (7) welded to an inner peripheral surface of the cylindrical iron core (31). The cooling pipe (7) includes an outward pipe (71) and a return pipe (72) spirally wound in a same winding direction along the inner peripheral surface of the cylindrical iron core (31), the outward pipe (71) and the return pipe (72) communicate with each other at one end side, a cooling medium inlet (P1) is formed at another end of the outward pipe (71), and a cooling medium outlet (P2) is formed at another end of the return pipe (72).

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