

Abstract:

Method and device for welding components, which can be travelled upon, of a track by flash butt welding

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A method for welding components, which can be travelled upon, of a track by flash butt welding in a welding device, comprising the steps of straight flashing, preheating, flashing and upsetting, wherein the upsetting process
10 generates a welding region, whereupon the welding region, from the welding heat, is subjected to a cooling step (5) in which an austenitic structure of the welding region is converted into a pearlite structure, whereupon the welding region is subjected to a reheating step (6) in which the
15 welding region is heated to above the Ac1 conversion temperature, wherein the heating is performed by electrical resistance heating in the welding device using the power source that is used for the straight flashing, preheating and flashing, whereupon a region of the component, the region
20 coming into contact with a wheel and being in particular a rail head, is subjected to cooling (7) in the welding region.

Fig. 1