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(54) **Method of straightening and calibrating a railway bogie frame by means of magnetic induction heating**

(57) A method of straightening and calibrating a railway bogie frame (1) carried out by reciprocally connecting, by means of electric welding operations, metal portions shaped by means of previous production cycles; during the electric welding operations, the metal material undergoes a thermal cycle which produces melted zones and thermally altered zones (Z) in which residual strains introduced by rapidly heating/cooling the metal are present. The frame is then subjected to a step of heating in a furnace which does not completely eliminate the distortions in the frame because some parts thereof may not be aligned with respect to the nominal shape. The method of straightening and calibrating by heating comprises the step of applying loads to the frame and punctually heating at least one portion of the frame itself by arranging an inductor (20) facing the portion and feeding an alternating current to the inductor (20) so as to generate induced currents in the metal portion facing the inductor (20); such induced currents close in the metal portion, which is heated in a concentrated, punctual manner by Joule effect. (Figure 2)

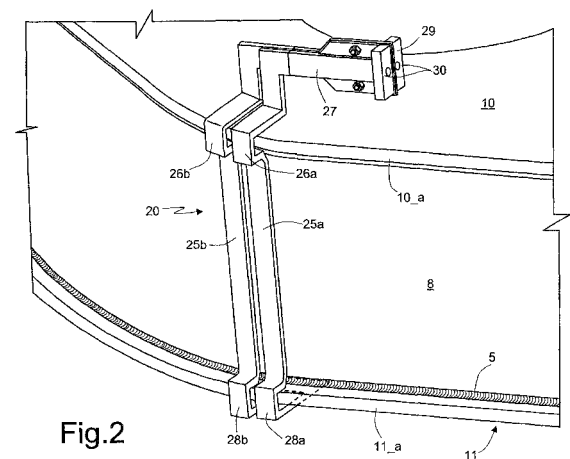


Fig.2



EUROPEAN SEARCH REPORT

 Application Number
 EP 09 17 7242

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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 16 December 2011	Examiner Lendfers, Paul
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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