

Title (en)

METHOD AND APPARATUS FOR LONGITUDINAL WELDING OF TUBULAR BODY

Title (de)

VERFAHREN UND VORRICHTUNG ZUM LÄNGENSCHWEISSEN EINES ROHRFÖRMIGEN KÖRPERS

Title (fr)

PROCÉDÉ ET APPAREIL POUR SOUDAGE LONGITUDINAL D'UN CORPS TUBULAIRE

Publication

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Application

EP 12722667 A 20120404

Priority

- BG 11084811 A 20110208
- BG 2012000009 W 20120404

Abstract (en)

[origin: WO2012106783A1] The method and apparatus are applicable in production of cans, bottles and more. It has enhanced weld quality, improved appearance and low waste. Laminated foil 2 moves with relatively constant speed and is formed around the mandrel 1. Over the foil edge 7 is placed compressing/cooling bar 10 having cooling channel 11, and over second edge 8 - compressing/cooling bar 12 having cooling channel 13. The profile of mandrel 1 in the heating area of overlapped edges 7 and 8 of foil 2 has step 5 to form cavity 6 between edges 7 and 8. The heating unit 3 is a nozzle supplying hot air into cavity 6. Melting of the foil 2 is limited only to the area, which is not in contact with compressing/cooling bars 10 and 12 and the mandrel 1. During further movement of foil 2 due to change in profile of mandrel 1, transforming into plane 9 the end 8 is lifted up while pressed the end 7 and the two together in compressing/cooling bar 10. After welding area there is cutter 4 to cut the tube into tubular bodies.?

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2012106783A1

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