

## Title (en)

Thermal method to control the deformations of hot-rolled sections and relative device

## Title (de)

Thermisches Verfahren zum Regeln der Deformationen von Warmwalzprofilen und zugehörige Vorrichtung

## Title (fr)

Procédé et dispositif thermique pour contrôler les déformations des profilés laminés à chaud

## Publication

**EP 0752286 A1 19970108 (EN)**

## Application

**EP 96110287 A 19960626**

## Priority

IT UD950136 A 19950707

## Abstract (en)

Thermal method to control the deformations of hot-rolled sections (11) upstream of a cooling plate (18), whereby the section (11) being fed undergoes longitudinally a cooling by means of jets of a cooling fluid applied by delivery means (13), the jets of fluid (24) being in the form of a wall or beam and having their axes parallel to the longitudinal axis of the section (11) and having a rate of flow of cooling fluid such as to lap at least one limited zone of the section (11), so as to obtain in the material and in said zone a higher yield point which will prevent possible subsequent plastic deformations generated by stresses of a thermal type, and will prevent micro-structural alterations which impair the quality of the product, the intense cooling zone being arranged along a line determined according to the type of section (11). Device to control the deformations of hot-rolled sections (11), cooperating with the cooling plate (18) of the sections downstream of the rolling line (17), said device (10) comprising means (13) to deliver a cooling fluid under pressure in the form of a wall or beam, the jets of fluid (24) cooperating respectively with at least one surface of the section (11) so as to create a limited cooling zone extending longitudinally to the section, said cooling fluid under pressure being parallel to the longitudinal axis of the section (11) itself, and the said delivery means being able to move transversely to the section (11). <IMAGE>

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- [DA] PATENT ABSTRACTS OF JAPAN vol. 10, no. 353 (M - 539) 28 November 1986 (1986-11-28)
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- [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 241 (M - 614) 7 August 1987 (1987-08-07)
- [A] PATENT ABSTRACTS OF JAPAN vol. 16, no. 479 (C - 0992) 6 October 1992 (1992-10-06)
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