

Title (en)

Method and apparatus for etching edges of a hot rolled plate

Title (de)

Verfahren und Vorrichtung zum Beizen der Kanten eines warmgewalzten Bleches

Title (fr)

Procédé et dispositif de décapage des rives d'une tôle laminée à chaud

Publication

**EP 0543685 B1 19960522 (FR)**

Application

**EP 92402641 A 19920925**

Priority

FR 9112324 A 19911007

Abstract (en)

[origin: US5441062A] The device comprises an ultrasonic wave emitter (4) whose lower end portion (5) is immersed in the reactive solution (2) in which a sheet (3) to be pickled is immersed, and this end portion is provided with two emitting plates (6,7) respectively positioned on each side of an edge portion of the sheet (3) with their planar emitting surfaces parallel to the sheet and contained in two antinodal planes. Consequently, the two plates (6,7) vibrate in phase opposition and, if the vibratory amplitude is sufficiently large, these vibrations create a cavitation in the liquid in the space between the surfaces (3a,3b) of the edge portion and the plates (6,7) which considerably accelerates the rate of removal of scale from the edge portion.

IPC 1-7

**C23G 3/00**; **B08B 3/12**; **C23G 3/02**; **G10K 13/00**

IPC 8 full level

**C23G 1/08** (2006.01); **B08B 3/12** (2006.01); **C23G 3/02** (2006.01); **G10K 13/00** (2006.01)

CPC (source: EP KR US)

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