

Title (en)

METHOD OF BOX-ANNEALING STEEL SHEET TO MINIMIZE ANNEALING STICKERS

Publication

EP 0094808 B1 19851121 (EN)

Application

EP 83302724 A 19830513

Priority

US 37804782 A 19820514

Abstract (en)

[origin: EP0094808A1] In the box annealing of steel sheet, the tendency for adjacent wraps of the sheet to pressure weld (stick) is decreased or eliminated by passing the sheet, prior to annealing, through a rinse containing from 1,500 to 10,000 ppm of the magnesium or calcium salts of soluble carboxylic acids, preferably formates. Further benefits are realized if the sheet is electro-cleaned with a silicate containing cleaning solution, and thereafter rinsed in the formate solution whereby the latter acts to fix the concentration of silicates remaining on the surface of the sheet.

IPC 1-7

C21D 1/70; **C21D 1/74**

IPC 8 full level

C21D 1/26 (2006.01); **C21D 1/70** (2006.01); **C21D 9/46** (2006.01); **C21D 9/663** (2006.01)

CPC (source: EP KR)

C21D 1/26 (2013.01 - KR); **C21D 1/70** (2013.01 - EP); **C21D 9/46** (2013.01 - EP)

Cited by

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DOCDB simple family (publication)

EP 0094808 A1 19831123; **EP 0094808 B1 19851121**; AU 1453883 A 19831117; BR 8302507 A 19840117; CA 1198708 A 19851231; DE 3361283 D1 19860102; ES 522379 A0 19840501; ES 8404713 A1 19840501; JP S5953635 A 19840328; KR 840004790 A 19841024

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EP 83302724 A 19830513; AU 1453883 A 19830513; BR 8302507 A 19830513; CA 427899 A 19830511; DE 3361283 T 19830513; ES 522379 A 19830513; JP 8288983 A 19830513; KR 830002072 A 19830513