

Title (en)
PROCESS FOR CUTTING PLATE OR SHEET MATERIAL

Publication
EP 0224414 B1 19890308 (FR)

Application
EP 86402480 A 19861106

Priority
FR 8516721 A 19851113

Abstract (en)
[origin: US4819529A] A method, and in particular an automatic method, of cutting parts out from sheet or plate material, the method comprising the steps of: placing templates (1, 2) having the shapes and sizes of the said parts upon said sheet or plate of material; recognizing the respective shapes, sizes, orientations, and positions of the templates on the material by means of distinctive signs characteristic of the shapes and sizes of the respective templates; and cutting out parts from said sheet or plate material along outlines defined by said templates; the method including the improvement of a further step in which any overlaps (3) between templates are detected and the lines of cut where the templates overlap are modified either by cutting along a straight line (6) interconnecting the points of intersection (4, 5) between the outlines of the overlapping templates, or by cutting along an average line (9) equidistant from the outlines of the templates between the points of intersection of the outlines of the overlapping templates, or else by cutting along the outline (7, 8) of one or other of the overlapping templates, with the type of cut being selected for each overlap zone as a function of the types of the overlapping templates and of the portions of template outlines concerned, said selections being suitable for storage in a list of possible types of cut, which list may be consulted immediately after detecting and identifying a given overlap. These overlap operations may be performed by computer.

IPC 1-7
C14B 5/00; B26F 1/38

IPC 8 full level
B26F 1/38 (2006.01); **C14B 5/00** (2006.01)

CPC (source: EP US)
C14B 5/00 (2013.01 - EP US); **Y10T 83/0491** (2015.04 - EP US); **Y10T 83/0572** (2015.04 - EP US); **Y10T 83/166** (2015.04 - EP US); **Y10T 83/875** (2015.04 - EP US)

Designated contracting state (EPC)
AT BE CH DE ES GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0224414 A1 19870603; **EP 0224414 B1 19890308**; AT E41173 T1 19890315; DE 3662274 D1 19890413; ES 2007302 B3 19890716; FR 2589774 A1 19870515; FR 2589774 B1 19880129; GR 3000069 T3 19901031; US 4819529 A 19890411

DOCDB simple family (application)
EP 86402480 A 19861106; AT 86402480 T 19861106; DE 3662274 T 19861106; ES 86402480 T 19861106; FR 8516721 A 19851113; GR 890400077 T 19890605; US 92989086 A 19861113