

Title (en)

A guide device for the needles of a print head of a dot matrix printer and process for its production.

Title (de)

Führungsvorrichtung für die Nadeln in einem Druckkopf eines Punktmatrixdruckers und Verfahren für ihre Herstellung.

Title (fr)

Dispositif de guidage pour les aiguilles dans une tête d'impression d'une imprimante à matrice de points et son procédé de fabrication.

Publication

EP 0253189 A1 19880120 (EN)

Application

EP 87109315 A 19870629

Priority

IT 6757986 A 19860718

Abstract (en)

A guide device for the needles of a print head of a dot matrix printer is described, of the type in which the needles are supported by a matrix and by at least one other guide element, as well as the process for its production; the principle characteristic of this device lies in the fact that at least the matrix (4) is formed by one or more thin superimposed plates (11) provided with guide holes (12) for the needles formed by photo-etching; if more than one, such plates are glued together with their holes offset.

IPC 1-7

B41J 3/12

IPC 8 full level

B41J 2/265 (2006.01)

CPC (source: EP)

B41J 2/265 (2013.01)

Citation (search report)

- GB 1346754 A 19740213 - CENTRONICS DATA COMPUTER
- US 4572681 A 19860225 - MIYAZAWA YOSHINORI [JP], et al
- DE 2512333 A1 19761007 - SIEMENS AG

Cited by

US5433538A

Designated contracting state (EPC)

AT CH DE ES FR GB LI NL SE

DOCDB simple family (publication)

EP 0253189 A1 19880120; EP 0253189 B1 19910116; AT E60004 T1 19910215; DE 3767393 D1 19910221; ES 2019905 B3 19910716; IT 1193158 B 19880602; IT 8667579 A0 19860718

DOCDB simple family (application)

EP 87109315 A 19870629; AT 87109315 T 19870629; DE 3767393 T 19870629; ES 87109315 T 19870629; IT 6757986 A 19860718