Title (en)

Matrix printer comprising an oscillary printing element carrier.

Title (de)

Matrixdrucker, der einen schwingenden Druckelemententräger aufweist.

Title (fr)

Imprimante matricielle contenant un porte-types oscillant.

Publication

EP 0043434 A1 19820113 (EN)

Application

EP 81104007 A 19810525

Priority

US 16718180 A 19800709

Abstract (en)

Described, is a printing mechanism allowing full exploitation of the potential of dot matrix printing. Dot forming elements (7, 8) are mounted on a carrier (5) for transport past an array of hammers (6) located in front of media (4) to be marked upon. The dots or carrier are impacted by the hammers to form dots on the medium. By appropriate control of motion of the printing medium and timing of the hammer impacts, a dot may be formed anywhere on the surface of the medium. This allows unlimited character font set generation as well as psecial character printing. In addition, the mechanism permits an all points available graphics generation system and full control for variable vertical spacing of printed elements and of variable horizontal spacing of the printed elements. To improve the throughput speed, a revesible motor is used for driving the dot element carrier and a plurality of dot font sizes and shapes are provided on the carrier. By selection of the required font size and shape and by comparison with the presently known position of the carrier, the quickest access to the next desired dot font for any given hammer can be achieved.

IPC 1-7

B41J 3/12

IPC 8 full level

B41J 1/20 (2006.01); **B41J 2/31** (2006.01)

CPC (source: EP)

B41J 1/20 (2013.01); **B41J 2/31** (2013.01)

Citation (search report)

- US 3605613 A 19710920 - PUY SEYMOUR M DE, et al
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EP0082332A3; US4540296A; US4596479A; EP0097780A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0043434 A1 19820113; **EP 0043434 B1 19840912**; DE 3165975 D1 19841018; JP S5729468 A 19820217

DOCDB simple family (application)

EP 81104007 A 19810525; DE 3165975 T 19810525; JP 8976981 A 19810612