

Title (en)
Dot-matrix print head

Title (de)
Punktmatrixdruckkopf

Title (fr)
Tête d'impression matricielle

Publication
EP 1186426 A3 20020320 (EN)

Application
EP 01121478 A 20010907

Priority
IT MI20001972 A 20000908

Abstract (en)
[origin: EP1186426A2] A dot-matrix print head (1) wherein a casing (2) houses a number of sliding print needles (3) arranged radially about a central axis (7), respective rocking members (4) associated with the needles (3), and respective electromagnets (5) for controlling the rocking members and for attracting the respective rocking members in opposition to elastic contrasting means (6) to move the respective rocking members selectively into a rest position and a print position; the elastic contrasting means (6) are defined by a substantially U-shaped monolithic annular element (6) made of elastomeric material and having two continuous circumferential projections (21, 22) spaced radially to rest, with respective predetermined loads, on respective first and second contact portions of the rocking members (4); and the annular element (6) is so shaped and sized that the ratio between the respective predetermined loads exerted by the projections (21, 22) on the respective first and second contact portions (23, 24) of the rocking members (4) ranges between roughly 7:1 and roughly 3:1 when the rocking members are in the rest position, and between roughly 3:1 and roughly 1:1 when the rocking members are in the print position. <IMAGE>

IPC 1-7
B41J 2/28; **B41J 2/275**; **B41J 2/24**

IPC 8 full level
B41J 2/24 (2006.01); **B41J 2/275** (2006.01)

CPC (source: EP)
B41J 2/24 (2013.01); **B41J 2/275** (2013.01)

Citation (search report)
• [DXA] US 4886381 A 19891212 - KERSEY KEVIN T [US]
• [XA] US 4230038 A 19801028 - HEBERT DONALD G [US]
• [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 517 (M - 1047) 13 November 1990 (1990-11-13)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1186426 A2 20020313; **EP 1186426 A3 20020320**; IT 1318835 B1 20030910; IT MI20001972 A0 20000908; IT MI20001972 A1 20020308

DOCDB simple family (application)
EP 01121478 A 20010907; IT MI20001972 A 20000908