

Title (en)
MATRIX PRINTING HEAD

Publication
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Application
EP 85113392 A 19851022

Priority
DE 3502469 A 19850125

Abstract (en)
[origin: US4695174A] A matrix print head includes a magnetic yoke plate, magnetic pole defining cores annularly arranged on the yoke plate, electromagnetic coils mounted on the cores, a permanent magnet plate arranged in magnetic conductive relationship to the yoke plate; the yoke plate, the cores, coils, and permanent magnet plate establishing an electromagnetic assembly, there being additionally an armature assembly including an armature plate and a plurality of deflectable radially extending armature arms, the armature assembly being arranged in relation to the electromagnetic assembly such that the armature arms cooperate with the electromagnetic cores, there being print elements such as styli connected to the armature arms; the improvement disclosed is comprised of the following features, the armature plate and the armature arms are physically separated from each other but resiliently interconnected to establish a single uncritical parasitic air gap; and the magnetic yoke and armature plates are radially, inwardly recessed vis-a-vis the permanent magnet plate. A radially inwardly and outwardly recessed intermediate plate is interposed between the permanent magnet and the armature ring.

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B41J 7/84

IPC 8 full level
B41J 2/23 (2006.01); **B41J 2/28** (2006.01)

CPC (source: EP US)
B41J 2/28 (2013.01 - EP US)

Citation (search report)

- [A] US 4433926 A 19840228 - ISOBE MINORU [JP], et al
- [A] US 4348120 A 19820907 - ISOBE MINORU, et al
- [A] PATENT ABSTRACTS OF JAPAN, Band 8, Nr. 203 (M-326)[1640], 18. September 1984; & JP - A - 59 93362 (BROTHER KOGYO K.K.) 29.05.1984

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