

Title (en)  
NEEDLE PRINT HEAD

Publication  
**EP 0280864 A3 19890104 (DE)**

Application  
**EP 88100870 A 19880121**

Priority  
DE 3706730 A 19870302

Abstract (en)  
[origin: US4838714A] In a needle print head including a plurality of hinged armature magnets arranged in a ring about a needle guide with each of the magnets including a U-shaped magnet yoke, a magnet coil on one of the U-legs of such yoke and a hinged armature arranged at least nearly radially, the hinged armature at its radially inner end is connected to a print needle and is biased by spring force to a rest position away from the yoke at which it engages a stop, each hinged armature at its radially outer end being pivotally supported by a cylindrical pin for rotation about the axis of the pin, and a return spring engaging the hinged armature at a point between the print needle and the radially inner yoke leg.

IPC 1-7  
**B41J 3/12; H01F 7/14**

IPC 8 full level  
**B41J 2/275** (2006.01); **B41J 2/28** (2006.01); **H01F 7/14** (2006.01)

CPC (source: EP US)  
**B41J 2/275** (2013.01 - EP US)

Citation (search report)  
• [Y] US 4382701 A 19830510 - DAVENPORT KEITH B [GB]  
• [Y] FR 2026401 A1 19701018 - ROOTES MOTORS LTD  
• [A] DE 2256813 A1 19730530 - RICOH KK  
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Designated contracting state (EPC)  
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0280864 A2 19880907; EP 0280864 A3 19890104; EP 0280864 B1 19910814**; AT E66184 T1 19910815; DE 3706730 A1 19880915; DE 3706730 C2 19900405; DE 3864161 D1 19910919; ES 2024557 B3 19920301; JP S63233849 A 19880929; US 4838714 A 19890613

DOCDB simple family (application)  
**EP 88100870 A 19880121**; AT 88100870 T 19880121; DE 3706730 A 19870302; DE 3864161 T 19880121; ES 88100870 T 19880121; JP 4946288 A 19880302; US 15683388 A 19880217