

Title (en)
PRINT HAMMER DEVICE

Publication
EP 0064632 B1 19850821 (DE)

Application
EP 82103371 A 19820421

Priority
• DE 3116402 A 19810424
• DE 3148503 A 19811208

Abstract (en)
[origin: US4429342A] An impact printing device having a plunger-type magnet system has an armature consisting of two joined portions which are a cylindrical principal portion and a guide portion which serves as the printing hammer. The principal portion of the armature consists of material of high magnetic permeability and carries a cylindrical peg thereon which mates with a corresponding receptacle in the printing hammer, which is comprised of non-magnetic material. The principal portion and the peg thereon terminate at sharp edges which cause the magnetic lines of force to converge at those edges thereby increasing the kinetic energy available for moving the armature during a printing stroke. A position sensor is connected to a drive circuit for the magnet system for controlling acceleration of the armature on its way to the striking point and deceleration of the armature during a return after a printing stroke in accordance with the speed of the returning armature.

IPC 1-7
B41J 9/38

IPC 8 full level
B41J 2/31 (2006.01); **B41J 9/38** (2006.01)

CPC (source: EP US)
B41J 9/38 (2013.01 - EP US)

Citation (examination)
IBM-TECHNICAL DISCLOSURE BULLETIN, Vol. 19, Nr. 8, Jänner 1977 Seiten 3107-3108

Cited by
EP0063784A3; DE3420450A1; US10836939B2

Designated contracting state (EPC)
CH FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0064632 A2 19821117; EP 0064632 A3 19840222; EP 0064632 B1 19850821; CA 1187440 A 19850521; SU 1284458 A3 19870115;
US 4429342 A 19840131

DOCDB simple family (application)
EP 82103371 A 19820421; CA 401590 A 19820423; SU 3424248 A 19820423; US 36845582 A 19820414