

Title (en)

Integrated reciprocating cartridge architecture with integral bearings

Title (de)

Integrierter Aufbau für hin und her geführte Tintenkas­setten mit integrierten Lagern

Title (fr)

Architecture intégrée d'une cartouche d'encre animé d'un mouvement de va-et-vient à paliers intégrés

Publication

EP 0953456 A1 19991103 (EN)

Application

EP 99303085 A 19990421

Priority

US 6970998 A 19980429

Abstract (en)

A hardcopy mechanism (20; 20'; 20''), such as an inkjet printing mechanism, a scanning mechanism, or a multi-function mechanism having both scanning and printing capabilities, has a reciprocating head (44, 46; 70, 72, 74, 76; 80, 82, 84, 86; 222) which is shuttled back and forth across a sheet of media (27). An inkjet printhead (44, 46; 70, 72, 74, 76; 80, 82, 84, 86) is shuttled over a print media (27) for printing, while a scan head (222) is shuttled across a printed sheet to read a previously printed image. This reciprocating head (44, 46; 70, 72, 74, 76; 80, 82, 84, 86; 222) uses a new integrated reciprocating cartridge architecture (78; 156; 176; 220) having guide rod bearings (138, 140; 142; 142'; 138'', 140''; 138''', 140''') integrally formed on the cartridge, virtually eliminating the earlier separate carriage which housed guide rod bearings and held replaceable cartridges. Reciprocating cartridges, both inkjet cartridges and scanning cartridges (220), are provided for such hardcopy mechanisms, with inkjet cartridges being provided as replaceable cartridges (40, 42), snapper-type cartridges (90, 92, 94, 96), and off-axis cartridges (50, 52, 54, 56).
<IMAGE>

IPC 1-7

B41J 25/34

IPC 8 full level

B41J 2/175 (2006.01); **B41J 25/304** (2006.01); **B41J 25/34** (2006.01)

CPC (source: EP)

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