

Title (en)

Narrow and wide wiper blade cleaning system for ink jet printheads

Title (de)

Reinigungsvorrichtung mit schmalen und breiten Wischblättern für Tintenstrahl Druckköpfe

Title (fr)

Système de nettoyage avec balais d'essuyage larges et étroits pour têtes d'impression par jet d'encre

Publication

EP 0913262 A1 19990506 (EN)

Application

EP 98112905 A 19980710

Priority

US 96204997 A 19971031

Abstract (en)

A dual-blade wiper system (100; 100'; 100"; 130) for cleaning inkjet printheads (70, 72, 74, 76) in an inkjet printing mechanism (20) gives individual wiping attention to an orifice plate (160) through which ink-ejecting nozzles are formed with a "little-brother blade (110; 140)," while also wiping the entire printhead, including cheek regions (162) of the printhead adjacent the orifice plate (160), using a "big-brother blade (120; 150; 170)." Both blades (110, 120; 140, 150; 110, 170) are onsert molded to a spring steel support platform (102; 132) that carries the blades between rest and servicing positions. Several dual-blade assemblies may be formed on the platform, with all the wider big-brother blades aligned (100), or alternating with the narrower little-brother blades (100'), or a single unitary big-brother blade (100", 170) may be used to wipe several printheads simultaneously. An inkjet printing mechanism (20) having such a dual-blade wiper system (100; 100'; 100"; 130) is also provided. <IMAGE>

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B41J 2/165

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CPC (source: EP)

B41J 2/16544 (2013.01)

Citation (search report)

- [A] EP 0780232 A2 19970625 - HEWLETT PACKARD CO [US]
- [A] EP 0673772 A1 19950927 - HEWLETT PACKARD CO [US]
- [A] EP 0630753 A2 19941228 - HEWLETT PACKARD CO [US]
- [A] EP 0684139 A1 19951129 - CANON KK [JP]
- [A] EP 0465260 A2 19920108 - HEWLETT PACKARD CO [US]
- [X] PATENT ABSTRACTS OF JAPAN vol. 014, no. 186 (M - 0962) 16 April 1990 (1990-04-16)
- [A] PATENT ABSTRACTS OF JAPAN vol. 096, no. 005 31 May 1996 (1996-05-31)

Cited by

CN103552378A; EP1197337A3; EP3638508A4; FR2827214A1; DE102017123489A1; US11305544B2; US10926543B2; US6631974B2; US7052106B1; US11794410B2; EP3995292A1; EP4269072A1; US10857800B2

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