

Title (en)
Dual inkjet pen carriage system

Title (de)
Wagensystem für einen dualen Farbstrahlschreiber

Title (fr)
Système de balayage pour deux dispositifs d'écriture

Publication
EP 1234679 A3 20021127 (EN)

Application
EP 02077163 A 19951101

Priority
• EP 00201349 A 19951101
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• US 39924495 A 19950302

Abstract (en)
[origin: EP0729844A1] A dual pen carriage system (50) supports a pair of inkjet pens (60, 62) in an inkjet printing mechanism (20). A carriage body (75) defines a pair of pen chambers (80, 82), separated by a main alignment wall (76), for receiving the pens (60, 62). The main wall (76) defines at least one first direction alignment datum (180, 180', 182, 184; 180'', 184, 186, 188) in each chamber (80, 82). A reference rod (190) extends through both chambers (80, 82) to define pen alignment datums in two orthogonal directions, which are orthogonal to the first direction. The body (75) supports an adjustment member (215) that selectively engages a rotational registration member (214) along the main wall (76) to simultaneously adjust the angular alignment of each pen chamber (80, 82). A latch mechanism (70, 72) coupled to the carriage body (75) applies, upon closing, a controlled force to a latching land (115, 155) on each pen (60, 62) to push the pens into contact with the datums (180, 180', 182, 184, 190, 196; 180'', 184, 186, 188, 190, 198). A method is also provided for aligning a pair of inkjet pens (60, 62) in an inkjet printing mechanism (20). <IMAGE>

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Citation (search report)
• [A] EP 0622234 A2 19941102 - HEWLETT PACKARD CO [US]
• [DA] US 4907018 A 19900306 - PINKERPELL DAVID W [US], et al
• [A] US 5212502 A 19930518 - BOWLING BRUCE A [US]

Cited by
GB2392877A; GB2392877B; US11254124B2

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EP 0729844 A1 19960904; EP 0729844 B1 20010103; CN 1083340 C 20020424; CN 1138527 A 19961225; DE 69519790 D1 20010208; DE 69519790 T2 20010419; DE 69529779 D1 20030403; DE 69529779 T2 20031127; DE 69534328 D1 20050825; DE 69534328 T2 20060504; EP 1018436 A2 20000712; EP 1018436 A3 20001122; EP 1018436 B1 20030226; EP 1234679 A2 20020828; EP 1234679 A3 20021127; EP 1234679 B1 20050720; JP 3856864 B2 20061213; JP H08244230 A 19960924; KR 100402568 B1 20040309; KR 960033762 A 19961022

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