

Title (en)
IMPACT PRINTERS

Publication
EP 0490643 A3 19921021 (EN)

Application
EP 91311480 A 19911210

Priority
US 62556990 A 19901211

Abstract (en)
[origin: EP0490643A2] An impact printer (10) including a platen (18), a carriage (32) mounted for reciprocating movement generally parallel to the platen, a rotatable print element (50) having character imprinting portions disposed thereon, the characters being assigned a class designation according to their imprinting area, a print element selector for moving the print element to position a selected character portion at a printing position, a hammer (82) for driving the character portions to deform the platen, and means for driving the hammer toward and away from the platen. Different impact speeds are assigned to the hammer in accordance with the character portion class designations. The rate of hammer displacement is varied as it is moved from a home position to an impact position so that the hammer initially moves through a first region at an increasing speed and subsequently moves through a second region at a substantially-constant speed. A counter is incremented periodically in response to the hammer movement for determining the instantaneous location and speed of the hammer, and the counter is reset with a predetermined count, notwithstanding the actual count, at a location within the second region. <IMAGE>

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B41J 9/44

IPC 8 full level
B41J 9/48 (2006.01); **B41J 2/30** (2006.01); **B41J 9/44** (2006.01)

CPC (source: EP)
B41J 9/44 (2013.01)

Citation (search report)
• [A] FR 2622509 A1 19890505 - TRIUMPH ADLER AG [DE]
• [A] GB 2086093 A 19820506 - XEROX CORP
• [A] NL 7604474 A 19771031 - TEALTRONIC NEDERLAND B V
• [A] PATENT ABSTRACTS OF JAPAN vol. 10, no. 336 (M-535)(2392) 14 November 1986 & JP-A-61 141 574 (HIROJI Iwai) 28 June 1986

Cited by
CN1082900C; CN1106947C

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DE FR GB

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EP 91311480 A 19911210; CA 2051571 A 19910917; DE 69111395 T 19911210; JP 32347891 A 19911207