

Title (en)  
CIRCUIT FOR A MATRIX PRINTER

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Application  
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Abstract (en)  
[origin: EP0408122A2] In matrix printers with mechanical printing elements, said elements must be triggered a specific time before the desired printing point on the recording medium is reached by the printing element since after the triggering and until the printing element, strikes the recording medium the printing element still has to move a certain distance. This distance is dependent on the speed of the printing element. However, if the printing signal is always generated over a constant distance before the desired printing point is reached by the printing element, said element must be decelerated in order to drive the printing element as a function of its speed so that accurate printing can also take place already when the printing head is starting up and slowing down. For this, a deceleration arrangement is provided which decelerates the print signal for the respective printing element by a time which is dependent on the print head speed. A preferred embodiment of the deceleration arrangement uses a counter which is also used for determining the activation time of the magnet and a pause. In addition, a circuit is described for determining the deceleration time as a function of the speed, which circuit operates with two settable counters, one counter of which counts a constant clock frequency and the other counter counts position impulses as a function of the movement of the printing element. As a result, the constant needle flight time is converted into a speed-dependent distance, by which the lead distance of the print signal is corrected. <IMAGE>

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• [AP] US 4877343 A 19891031 - HORI MASAOKI [JP]  
• [A] DE 2751326 B2 19801120  
• [A] DE 3727049 A1 19880218 - OKI ELECTRIC IND CO LTD [JP]  
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