

Title (en)

Method and device for controlling a carriage motor and paper feed motor of a printer

Title (de)

Verfahren und Vorrichtung zur Steuerung des Druckwagen- und Papierantriebes eines Druckers

Title (fr)

Méthode et dispositif pour commander les moteurs d'avancement du chariot et d'avancement du papier pour une imprimante

Publication

EP 0373558 B2 19970312 (EN)

Application

EP 89122825 A 19891211

Priority

JP 31333188 A 19881212

Abstract (en)

[origin: EP0373558A2] A control device for a carriage motor (CR) and paper feed (PF) motor of a printer includes; a unit for calculating, when the output of a paper presence/absence detector is indicative of paper absence, the length of a printable space remaining on a paper, a unit for predicting, on the basis of the calculated remaining space length and a paper feed amount of paper feeding being expected to be performed, the presence/absence of the printable space after the paper feeding expected to be performed is performed, a unit for controlling, when the prediction result is indicative of space presence, the driving of the paper feed motor to perform the paper feeding expected to be performed, and a unit for starting, when the print action is to be performed subsequently to the paper feeding, the driving of the carriage motor in advance of the termination of the paper feeding such that the speed of the carriage motor reaches a level adapted for the print action when the paper feeding terminates. When the print action is to be performed subsequently to the execution of the paper feeding, a judgement of printability after the execution of the paper feeding is made before the execution of that paper feeding, so that the speed of the carriage motor is made to reach a level adapted for the print action just at the moment (t3) when that paper feeding terminates. Therefore, the print action can be started immediately after the termination of the paper feeding.

IPC 1-7

B41J 29/38; B41J 29/44; B41J 19/78

IPC 8 full level

B41J 11/42 (2006.01); **B41J 29/38** (2006.01); **B41J 29/44** (2006.01)

CPC (source: EP)

B41J 11/42 (2013.01); **B41J 29/44** (2013.01)

Cited by

EP2633996A4; EP1258368A3; EP0666179A3; US6076911A; US6823132B2; US6838855B2; EP1258368A2; US6729712B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0373558 A2 19900620; **EP 0373558 A3 19910102**; **EP 0373558 B1 19930811**; **EP 0373558 B2 19970312**; DE 68908372 D1 19930916; DE 68908372 T2 19940113; DE 68908372 T3 19970612; JP H02158367 A 19900618

DOCDB simple family (application)

EP 89122825 A 19891211; DE 68908372 T 19891211; JP 31333188 A 19881212