Title (en)

Method for detecting an end portion of a recording paper in a recording apparatus and end portion detection apparatus

Title (de)

Verfahren zum Nachweis des Endteiles eines Aufnahmepapiers in einem Aufnahmegerät und Nachweisgerät für ein Endteil

Title (fr)

Procédé de détection de partie terminale d'un papier d'enregistrement dans un appareil d'enregistrement et appareil de détection pour une partie terminale

Publication

EP 0763784 B1 20011121 (EN)

Application

EP 96306667 A 19960913

Priority

- JP 26068995 A 19950913
- JP 22933596 A 19960812

Abstract (en)

[origin: EP0763784A2] A sheet end detector 10, made from a light-emitting element 11 and a light-receiving element 12, detecting changes in the amount of light associated with movement of a recording paper; a standard value calculation means 24, detecting an amount of difference (Vm - Vp) between said sheet end detector 10 platen voltage Vp resulting from light reflected from a sheet guide and said sheet end detector 10 paper saturation voltage Vm resulting from light reflected from a recording paper, and calculating a standard value Vs= Ä(Vm - Vp) x CÜ + Vm by multiplying by a constant coefficient C greater than 0 and less than 1; and a comparing means 25, comparing said standard value and a signal from said sheet end detector 10 and recognizing a point in time when said signal corresponds to said standard level as being indicative of the presence of a leading edge or trailing edge of a recording paper, are provided. The amount of paper feeding necessary for platen voltage Vp to reach standard value Vsa, Vsb is a constant value Nt - Ns irrespective of paper characteristics. As standard value Vs is a constant value, the point in time when this amount of light is reached is the point in time when the end portion of a recording paper has reached a constant sheet end detector relative position Nt, Nb. <IMAGE>

IPC 1-7

B41J 29/42; G03G 15/00

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B65H 7/14 (2013.01); **G03G 15/65** (2013.01); B65H 2511/514 (2013.01); B65H 2513/41 (2013.01); B65H 2513/50 (2013.01); B65H 2513/512 (2013.01); B65H 2515/60 (2013.01); B65H 2515/70 (2013.01); B65H 2553/414 (2013.01); B65H 2557/23 (2013.01); B65H 2557/24 (2013.01); B65H 2701/1311 (2013.01); B65H 2701/1313 (2013.01); G03G 2215/00616 (2013.01); G03G 2215/00721 (2013.01)

Cited by

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