

Description

The present invention relates to a printer apparatus capable of printing on at least two different types of recording sheets, namely, slip sheets, such as cut sheets, and roll sheets, such as journal paper or receipts.

To guide a roll sheet through the roll sheet path, a conventional printer requires a selector for selecting the proper paper path, that is, the cut sheet path, slip sheet path or roll sheet path, and a drive source for driving the guide plate. To feed a roll sheet through the printer, a feed switch is operated, which is used for feeding another sheet in synchronism with the operation of the guide plate for selecting either the slip sheet path or the roll sheet path.

In the prior art arrangement, the printer must be provided with a separate drive source for driving the guide plate, mixing the printer mechanism complicated. In addition, the printer frequently encounters situations where the paper must be fed in synchronism with the operation of the feed switch. This requires a complicated control mechanism.

Accordingly, an object of the present invention is to provide a printer having a simple mechanism for selecting between a slip sheet path or a roll sheet path. This object is solved by the printer according to independent claim 1. Further advantageous features of the printer are evident from the dependent claims, the description and the drawings.

The invention provides a printer in which a slip sheet path or a roll sheet path is selected only through the operation of a roll sheet guide plate, providing improved operability of the printer.

The invention provides a printer having a mechanism which can accommodate both a first recording sheet (a continuous sheet) and a second recording sheet (a cut sheet), the mechanism comprising: a first recording sheet path for conveying therethrough the first recording sheet; a second recording sheet path for conveying therethrough the second recording sheet; a printing section common to the first and second recording sheets; a roll sheet guide plate disposed in the upper portion of the printing section and manually slidable; and a detector for detecting an operation of the roll sheet guide plate, a recording sheet conveying mechanism for independently or simultaneously conveying said first and second recording sheets, spring means for urging said slidable roll sheet guide plate to a rest position, wherein said first and second recording sheet path are opened simultaneously when said guide plate is at said rest position and said second recording sheet path is closed and the first record sheet path is opened when said guide plate is slidably moved

According to another aspect of the invention, a control system is disclosed comprising a printer having the mechanism as described above, and further comprising a recording sheet control means for controlling the feed of the recording sheet, whereby the recording sheet control means is controlled according to the output of the detector, and the first recording sheet is guided to an exit of the appropriate recording sheet path.

In accordance with the above-described arrangements, when a roll sheet is fed to the printer, the slip sheet path is closed by moving the guide plate. At the same time, the drive means for controlling the paper feed is driven. Then, the roll sheet is placed to be ready for paper to be fed. Accordingly, the roll sheet can readily be set by merely inserting and pushing the roll sheet up to a roll sheet feed means. The control system for the printer of the present invention is excellent in operability.

Other objects, advantages, and features of the present invention will become apparent while reading the following detailed description in conjunction with the accompanying drawings.

Fig. 1 is a side view showing a mechanism of a paper guide portion of a printer according to a preferred embodiment of the present invention, where the mechanism is printing a slip sheet or a cut sheet;

Fig. 2 is a side view showing the printer mechanism being placed in a state where a roll guide plate is slid and a roll sheet is guided into the mechanism;

Fig. 3 is a side view showing the printer mechanism in a state where the roll sheet has been set in the mechanism and is guided through it;

Fig. 4 is a block diagram showing a control system for the printer according to the present invention; and

Fig. 5 is a perspective view showing a printer incorporating the printer mechanism of the present invention.

Preferred embodiments of the present invention will be described with reference to the accompanying drawings.

In Fig. 1, a print head 1 is disposed facing a platen 2. Print data can be printed on a slip sheet 14 and a roll paper 15 (a type of sheet - see Fig. 3) at a print position 1a where a print wire pin is located. The roll sheet guide plate 6 is held in a wait position by a return spring 7, which is strained between the plate 6 and a roll sheet guide mounting frame 9.

The slip sheet 14 passes the print position 1a (in the direction of arrow 14A) with the aid of a slip sheet feeding roller 12 (rotating in the direction of arrow 12A) and a slip sheet holding roller 13, which is held in press contact with the roller 12 by a

spring force (not shown). As the slip sheet passes the print position 1a, print data is printed on the slip sheet by the print head 1.

When the slip sheet is fed into the printer's slip sheet path a predetermined distance, a slip sheet pull-out roller 3 swings in the direction of arrow 4A about a fulcrum shaft 4a about which a lever 4 is swingable, and presses the slip sheet against a slip sheet pull-out/holding roller 5. As the slip sheet travels along the slip sheet path, it is eventually discharged in the direction 14A after being subjected to the printing, with the assistance of the combination of rollers 3 and 5. When the slip sheet path is selected, the roll sheet guide plate 6 is held in a wait position by the return spring 7 coupled between the guide plate and the frame 9, and therefore is out of the slip sheet path. This completely eliminates paper from jamming which is one of the most serious problems of a conventional printer.

The setting and exchange of the roll sheet will be described with reference to Figs. 1, 2 and 3.

The printer mechanism shown in Fig. 2 is ready for the setting of a new sheet. As shown, in this state the holding roller 13 is separated from the feeding roller 12, and the holding roller 5 likewise is separated from the feeding roller 3. One end of the roll sheet guide plate 6 is fixedly coupled with a knob 16, while the other end faces the slip sheet path. When the knob 16 is pushed in the direction of arrow 6A, the guide plate 6 closes the slip sheet path which extends between the pair of rollers 3 and 5. The movement of the knob 16 is detected by a detector 8 which is mounted on the frame 9. A signal derived from the detector 8 is used for driving a paper feeding power source (not shown). A drive force derived from the power source rotates a roll sheet feeding roller 10 in the direction of arrow 10A. The feeding roller 10 and a sheet holding roller 11 nip the leading edge of a roll sheet 15 as it is inserted in the direction 15A, and feeds the roll sheet in the same direction 15A. The roll sheet 15 passes the print position 1a, advances along a slope 6a of the guide plate 6, and exits the mechanism in the direction of arrow 15B. The roll sheet 15 exiting from the mechanism is subsequently fed to a cutter or a take-up unit, for instance.

After the roll sheet 15 is fed a predetermined distance, the knob 16 is released. Then, the return spring 7, which is coupled to the frame 9, returns the guide plate 6 to the wait position. At this time, the knob 16 disengages from the detector 8, which in turn produces a signal. In response to the signal, the setting of the roll sheet feed path is stopped and completed. It is noted that even when the roll sheet is in a position as shown in Fig. 3, data can be printed on the slip sheet, and if the roll sheet

paper is pressure sensitive, the same data can also be printed on the roll sheet paper.

Fig. 4 is a block diagram showing a control system for the printer according to the present invention. Fig. 5 is a perspective view showing a printer incorporating the printer mechanism of the present invention. As shown in Fig. 4, data is inputted to a CPU 42 from an external device through an interface 41. A ROM 44 is provided for storing program codes for CPU 42, character fonts data and so on. The data represents information, such as character fonts, and is used by the CPU to control and operate the printer. A RAM 43 temporarily stores the data from the interface 41 or the data derived from the ROM 44. An I/O 45 serves as a buffer for temporarily storing data, which is transferred to control circuits 51 to 53 for controlling a printer 50 which is under the control of the CPU 42. Of the control circuits 51 to 53, reference numeral 51 designates a motor control circuit, 52 represents a head control circuit, and 53 represents a power control circuit for operating the printer mechanism. A detector 46 detects the motion of the roll sheet guide plate. Another detector 47 detects when the cover of the printer is opened.

In Fig. 5, reference numeral 60 designates a printer case, and 61 represents a printer cover for covering a the printing section, which cover is swingable between an open or close position. A panel switch 62, coupled to the control system of the printer, instructs the control system to automatically feed a recording sheet. The cover open switch 47 is fixed at such a location as to be in contact with the cover of the printer case. Upon receipt of a signal from the switch, the CPU recognizes whether or not the cover is in the open or closed position. When the cover is in the open position, if the knob 16 (shown in Fig. 1) is pushed in the direction 6A, it becomes in contact with the switch 8 fixed to the frame 9, and the switch 8 generates a signal accordingly. Upon receipt of this signal, the CPU drives a power source (not shown) through the I/O 45 and the motor control circuit 51 to feed paper into the printer. At this time, the roll sheet is fed and moved along the slope 6a of the guide plate 6 in the direction 15B (Fig. 3). Thus, the roll sheet is reliably advanced in the first recording sheet path.

When the cover is in the open position, if the panel switch is mistakenly pushed, the roll sheet may be transferred to the wrong paper path. This could cause the paper to jam. To avoid this, a control program operates when the cover is in the open position to render the panel switch inoperable.

As understood from the foregoing description, the printer mechanism of the invention contains the roll sheet guide, the switch for detecting the move-

ment of the roll sheet guide plate, and the power control means driven by that switch. With this arrangement, the roll sheet path can be selected through only the operation of the guide plate, which is simple and not time consuming. Furthermore, the present invention includes the cover open detector. With the use of the detector, when the cover is in the open position, the panel switch is made inoperable, thereby preventing paper from jamming.

It should be understood that the present invention is not limited to the above-mentioned embodiments, but may be changed and modified within the scope of the appended claims.

Claims

1. A printer capable of accommodating at least two kinds of recording sheets including a first recording sheet (15) as a roll sheet and a second recording sheet (14) as a cut sheet, said printer comprising:

a) a first recording sheet path (15A,15B) for allowing said first recording sheet (15) to pass therethrough;

b) a second recording sheet path (14A) for allowing said second recording sheet (14) to pass therethrough;

c) a printing section (1) provided in common for said first and second recording sheets, said printing section holding said first and second recording sheets (14,15), independently or simultaneously;

d) a slidable roll sheet guide plate (6) disposed in an upper portion of said printing section and manually slidable;

e) a detector (8) for detecting the operational position of said roll sheet guide plate (6);

f) a recording sheet conveying mechanism for independently or simultaneously conveying said first and second recording sheets; and

g) spring means for urging said slidable roll sheet guide plate (6) to a rest position;

wherein

h) said first and second recording sheet path (15A,15B;14A) are opened simultaneously, when said guide plate (6) is at said rest position; and

i) said second recording sheet path (14A) is closed and the first recording sheet path (15A) is opened, when said guide plate (6) is slidably moved.

2. The printer according to claim 1, wherein said roll sheet guide (6) is manually slidable.

3. The printer means according to claim 1 or 2 further comprising:

a printer case (60) for enclosing at least said printer mechanism;

a cover (61) for covering said printing section in said case, said cover being movable between open and closed positions;

a panel switch (62) for instructing automatic feeding of said first (15) and second (14) recording sheets;

a cover open detector (47) for detecting when said cover is in the open position; and

control means (42) for rendering said panel switch inoperable when said cover is in the open position.

4. The printer of claim 3, wherein the cover (61) is swingable between open and closed positions.

5. The printer according to one of the preceding claims, wherein said mechanism further comprises: a feeding roller (12), a holding roller (13), a pull-out roller (3), and a pull-out/holding roller (5), said holding roller (13) being in pressing contact with said feeding roller (12), a slip sheet (14) being held between said feeding roller (12) and said holding roller (13), said feeding (12) and holding (13) rollers rotating in opposite directions to pass said slip sheet (14) through the printer along said second recording sheet path (14A), said slip sheet (14) after being fed a predetermined distance along said second recording path being held by said pull-out (3) and pull-out/holding (5), said pull-out (3) and pull-out/holding (5) rollers rotating in opposite directions to guide and pass said slip sheet (14) out of said printer.

6. The printer according to one of the preceding claims, wherein said first recording sheet path (15A, 15B) and second recording sheet path (14A) have common paths for a portion of their total paths.

7. The printer according to one of the preceding claims, further comprising: a frame (9) and a return spring (7), said return spring (7) being coupled between said guide plate (6), and said frame (9), and holding said guide plate (6) out of said second recording sheet path (14A) when said second recording sheet path is selected.

8. The printer according to one of the preceding claims, further comprising: a feeding roller (10), and a sheet holding roller (11), wherein, by moving said roll sheet guide (6) into the

ment of the roll sheet guide plate, and the power control means driven by that switch. With this arrangement, the roll sheet path can be selected through only the operation of the guide plate, which is simple and not time consuming. Furthermore, the present invention includes the cover open detector. With the use of the detector, when the cover is in the open position, the panel switch is made inoperable, thereby preventing paper from jamming.

It should be understood that the present invention is not limited to the above-mentioned embodiments, but may be changed and modified within the scope of the appended claims.

Claims

1. A printer capable of accommodating at least two kinds of recording sheets including a first recording sheet (15) as a roll sheet and a second recording sheet (14) as a cut sheet, said printer comprising:

- a) a first recording sheet path (15A,15B) for allowing said first recording sheet (15) to pass therethrough;
- b) a second recording sheet path (14A) for allowing said second recording sheet (14) to pass therethrough;
- c) a printing section (1) provided in common for said first and second recording sheets, said printing section holding said first and second recording sheets (14,15), independently or simultaneously;
- d) a slidable roll sheet guide plate (6) disposed in an upper portion of said printing section and manually slidable;
- e) a detector (8) for detecting the operational position of said roll sheet guide plate (6);
- f) a recording sheet conveying mechanism for independently or simultaneously conveying said first and second recording sheets; and
- g) spring means for urging said slidable roll sheet guide plate (6) to a rest position;

wherein

- h) said first and second recording sheet path (15A,15B;14A) are opened simultaneously, when said guide plate (6) is at said rest position; and
- i) said second recording sheet path (14A) is closed and the first recording sheet path (15A) is opened, when said guide plate (6) is slidably moved.

2. The printer according to claim 1, wherein said roll sheet guide (6) is manually slidable.

3. The printer means according to claim 1 or 2 further comprising:

a printer case (60) for enclosing at least said printer mechanism;

a cover (61) for covering said printing section in said case, said cover being movable between open and closed positions;

a panel switch (62) for instructing automatic feeding of said first (15) and second (14) recording sheets;

a cover open detector (47) for detecting when said cover is in the open position; and

control means (42) for rendering said panel switch inoperable when said cover is in the open position.

4. The printer of claim 3, wherein the cover (61) is swingable between open and closed positions.

5. The printer according to one of the preceding claims, wherein said mechanism further comprises: a feeding roller (12), a holding roller (13), a pull-out roller (3), and a pull-out/holding roller (5), said holding roller (13) being in pressing contact with said feeding roller (12), a slip sheet (14) being held between said feeding roller (12) and said holding roller (13), said feeding (12) and holding (13) rollers rotating in opposite directions to pass said slip sheet (14) through the printer along said second recording sheet path (14A), said slip sheet (14) after being fed a predetermined distance along said second recording path being held by said pull-out (3) and pull-out/holding (5), said pull-out (3) and pull-out/holding (5) rollers rotating in opposite directions to guide and pass said slip sheet (14) out of said printer.

6. The printer according to one of the preceding claims, wherein said first recording sheet path (15A, 15B) and second recording sheet path (14A) have common paths for a portion of their total paths.

7. The printer according to one of the preceding claims, further comprising: a frame (9) and a return spring (7), said return spring (7) being coupled between said guide plate (6), and said frame (9), and holding said guide plate (6) out of said second recording sheet path (14A) when said second recording sheet path is selected.

8. The printer according to one of the preceding claims, further comprising: a feeding roller (10), and a sheet holding roller (11), wherein, by moving said roll sheet guide (6) into the



position in which it guides the first recording sheet (15) into said first recording sheet path (15A, 15B), said guide (6) closes said second sheet path (14A) opens said first recording sheet path (15A, 15B) and causes a detector (8) to generate a signal which causes said feeding roller (10) to rotate.

9. The printer according to claim 8, wherein the roll sheet guide (6) comprises a sliding guide plate and control means (16) being attached to said guide plate for operating same.

10. The printer of claim 9, in which the control means are a knob (16) attached to one end of the guide plate (6).

Patentansprüche

1. Drucker für zumindest zwei Arten von Aufzeichnungsblättern, einschließlich eines ersten Aufzeichnungsblatts (15) in Form eines Rollenpapiers und eines zweiten Aufzeichnungsblatts (14) in Form eines Einzelblatts, folgendes umfassend:

- a) einen Weg (15A, 15B) für das erste Aufzeichnungsblatt, durch welchen das erste Aufzeichnungsblatt (15) geführt wird;
- b) einen Weg (14A) für das zweite Aufzeichnungsblatt, durch welchen das zweite Aufzeichnungsblatt (14) geführt wird;
- c) einen Druckbereich (1) für das erste und das zweite Aufzeichnungsblatt gemeinsam, in dem das erste und das zweite Aufzeichnungsblatt (14, 15) unabhängig voneinander oder gleichzeitig gehalten werden;
- d) eine verschiebbare Rollenführungsplatte (6), die im oberen Bereich des Druckbereichs angebracht und manuell verschiebbar ist;
- e) einen Detektor (8) zur Ermittlung der Betriebsstellung der Rollenführungsplatte (6);
- f) einen Aufzeichnungsblatttransportmechanismus zum unabhängigen oder gleichzeitigen Transport des ersten und zweiten Aufzeichnungsblatts; und
- g) Federelemente, um die verschiebbare Rollenführungsplatte (6) in eine Ruhestellung zu bringen;

wobei

- h) der Weg (15A, 15B; 14A) für das erste und das zweite Aufzeichnungsblatt gleichzeitig geöffnet werden, wenn sich die Führungsplatte (6) in Ruhestellung befindet; und
- i) der Weg (14A) für das zweite Aufzeichnungsblatt geschlossen und der Weg (15A) für das erste Aufzeichnungsblatt geöffnet

ist, wenn die Führungsplatte (6) verschoben ist.

2. Drucker nach Anspruch 1, wobei die Rollenführung (6) manuell verschiebbar ist.

3. Druckerelemente nach Anspruch 1 oder 2, weiters umfassend:

ein Druckergehäuse (60), das zumindest den Druckermechanismus einschließt;

eine Abdeckung (61), welche den Druckbereich im Gehäuse abdeckt und in geöffnete sowie in geschlossene Stellung bewegbar ist;

einen Konsolenschalter (62) zur Veranlassung des automatischen Einzugs des ersten (15) und zweiten (14) Aufzeichnungsblatts;

einen Abdeckung-Offen-Detektor (47), der die geöffnete Position der Abdeckung feststellt; und

ein Steuerungselement (42), welches die Funktion des Schalters hemmt, wenn sich die Abdeckung in geöffneter Stellung befindet.

4. Drucker nach Anspruch 3, wobei die Abdeckung (61) zwischen der geöffneten und der geschlossenen Stellung schwenkbar ist.

5. Drucker nach einem der vorhergehenden Ansprüche, wobei der Mechanismus zusätzlich umfaßt: eine Einzugswalze (12), eine Führungswalze (13), eine Auswurfswalze (3) und eine Auswurf/Führungswalze (5), wobei die Führungswalze (13) sich in Druckkontakt mit der Einzugswalze (12) befindet, ein Belegblatt (14), das zwischen der Einzugswalze (12) und der Führungswalze (13) gehalten wird, wobei die Einzugswalze (12) und die Führungswalze (13) in entgegengesetzten Richtungen rotieren, um das Belegblatt (14) durch den Drucker entlang des Weges (14A) für das zweite Aufzeichnungsblatt zu bewegen, und wobei das Belegblatt (14), nachdem es eine bestimmte Distanz entlang des zweiten Aufzeichnungsweges eingezogen wurde, von der Auswurf- (3) und der Auswurf/Führungswalze (5) gehalten wird und die Auswurf- (3) und Auswurf/Führungswalzen (5) in entgegengesetzte Richtungen rotieren, um das Belegblatt (14) zu führen und aus dem Drucker zu bewegen.

6. Drucker nach einem der vorhergehenden Ansprüche, wobei der Weg (15A, 15B) für das erste Aufzeichnungsblatt und der Weg (14A) für das zweite Aufzeichnungsblatt über einen Teil ihres Gesamtweges einen gemeinsamen Weg aufweisen.



7. Drucker nach einem der vorhergehenden Ansprüche, weiters umfassend: einen Rahmen (9) und eine Rückzugsfeder (7), die zwischen der Führungsplatte (6) und dem Rahmen (9) angebracht ist und die Führungsplatte (6) aus dem Weg (14A) für das zweite Aufzeichnungsblatt hält, wenn der Weg für das zweite Aufzeichnungsblatt gewählt ist.

8. Drucker nach einem der vorhergehenden Ansprüche, weiters umfassend: eine Einzugswalze (10) und eine Blattführungswalze (11), wobei die Führung (6) durch Bewegen der Führung (6) für das Rollenpapier in die Position, in der sie das erste Aufzeichnungsblatt (15) in den Weg (15A, 15B) für das erste Aufzeichnungsblatt führt, den Weg (14A) für das zweite Aufzeichnungsblatt schließt, den Weg (15A, 15B) für das erste Aufzeichnungsblatt öffnet und einen Detektor (8) veranlaßt, ein Signal zu erzeugen, das die Einzugswalze (10) zur Rotation bringt.

9. Drucker nach Anspruch 8, wobei die Führung für das Rollenpapier (6) eine gleitende Führungsplatte und Steuerungsmittel (16) umfaßt, die an der Führungsplatte zu deren Bedienung befestigt sind.

10. Drucker nach Anspruch 9, bei welchem das Steuerungsmittel ein Knopf (16) ist, der an einer Seite der Führungsplatte (6) befestigt ist.

Revendications

1. Imprimante pouvant recevoir au moins deux types de feuilles d'enregistrement comprenant une première feuille d'enregistrement (15) telle qu'une feuille de type rouleau et une seconde feuille d'enregistrement (14) telle qu'une feuille coupée, ladite imprimante comprenant:

a) un premier circuit de feuille d'enregistrement (15A, 15B) pour permettre à ladite première feuille d'enregistrement (15) de la traverser;

b) un second circuit de feuille d'enregistrement (14A) pour permettre à ladite seconde feuille d'enregistrement (14) de la traverser;

c) une partie d'impression (1) disposée de façon commune auxdites première et seconde feuilles d'enregistrement, ladite partie d'impression maintenant lesdites première et seconde feuilles d'enregistrement (14, 15), indépendamment ou simultanément;

d) une plaque de guidage des feuilles de type rouleau pouvant coulisser (6) disposée dans une partie supérieure de ladite partie d'impression et qui peut coulisser manuelle-

ment;

e) un détecteur (8) pour détecter la position de fonctionnement de ladite plaque de guidage des feuilles de type rouleau (6);

f) un mécanisme de transport des feuilles d'enregistrement pour transporter indépendamment ou simultanément lesdites première et seconde feuilles d'enregistrement; et

g) un dispositif à ressort pour mettre en une position de repos ladite plaque de guidage des feuilles de type rouleau pouvant coulisser (6);

dans laquelle

h) lesdits premier et second circuits de feuilles d'enregistrement (15A, 15B; 14A) sont ouverts simultanément, quand ladite plaque de guidage (6) est à ladite position de repos; et

i) ledit second circuit de feuille d'enregistrement (14A) est fermé et le premier circuit de feuille d'enregistrement (15A) est ouvert, quand ladite plaque de guidage (6) se déplace en couissant.

2. Imprimante selon la revendication 1, dans laquelle ladite plaque de guidage des feuilles de type rouleau (6) peut coulisser manuellement.

3. Imprimante selon la revendication 1 ou 2 comprenant en outre:

un boîtier d'imprimante (60) pour enfermer au moins ledit mécanisme d'imprimante;

un capot (61) pour recouvrir ladite partie d'impression dans ledit boîtier, ledit capot pouvant se déplacer entre une position ouverte et une position fermée;

un commutateur encastré (62) pour demander l'alimentation automatique desdites première (15) et seconde (14) feuilles d'enregistrement;

un détecteur d'ouverture du capot (47) pour détecter si ledit capot est en position ouverte; et

un dispositif de commande (42) pour inhiber le fonctionnement dudit commutateur encastré quand ledit capot est dans la position ouverte.

4. Imprimante selon la revendication 3, dans laquelle le capot (61) peut basculer entre les positions ouverte et fermée.

5. Imprimante selon l'une quelconque des revendications précédentes, dans laquelle ledit mécanisme comprend en outre: un rouleau d'alimentation (12), un rouleau de maintien (13), un rouleau d'extraction (3), et un rouleau d'extrac-



tion/maintien (5), ledit rouleau de maintien (13) étant en contact par pression avec ledit rouleau d'alimentation (12), une feuille de type fiche (14) étant maintenue entre ledit rouleau d'alimentation (12) et ledit rouleau de maintien (13), lesdits rouleaux d'alimentation (12) et de maintien (13) tournant dans des sens opposés pour faire passer ladite feuille de type fiche (14) dans l'imprimante le long dudit second circuit de feuille d'enregistrement (14A), ladite feuille de type fiche (14), après avoir été avancée sur une longueur prédéterminée le long dudit second circuit d'enregistrement, étant maintenue par lesdits rouleaux d'extraction (3) et d'extraction/maintien (5), lesdits rouleaux d'extraction (3) et d'extraction/maintien (5) tournant dans des sens opposés de façon à guider et faire sortir ladite feuille de type fiche (14) hors de l'imprimante.

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6. Imprimante selon l'une quelconque des revendications précédentes, dans laquelle lesdits premier circuit des feuilles d'enregistrement (15A, 15B) et second circuit des feuilles d'enregistrement (14A) ont des circuits communs sur une partie de leurs circuits totaux.

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7. Imprimante selon l'une quelconque des revendications précédentes, comprenant en outre: un cadre (9) et un ressort de rappel (7), ledit ressort de rappel (7) étant placé entre ladite plaque de guidage (6) et ledit cadre (9), et maintenant ladite plaque de guidage (6) hors dudit second circuit des feuilles d'enregistrement (14A) lorsque ledit second circuit des feuilles d'enregistrement est sélectionné.

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8. Imprimante selon l'une quelconque des revendications précédentes, comprenant en outre: un rouleau d'alimentation (10), et un rouleau de maintien (11), dans laquelle en déplaçant ledit guide des feuilles de type rouleau (6) à la position dans laquelle il guide la première feuille d'enregistrement (15) dans ledit premier circuit des feuilles d'enregistrement (15A, 15B), ledit guide (6) ferme ledit second circuit des feuilles d'enregistrement (14A), ouvre ledit premier circuit des feuilles d'enregistrement (15A, 15B) et fait générer par un détecteur (8) un signal qui fait tourner ledit rouleau d'alimentation (10).

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9. Imprimante selon la revendication 8, dans laquelle le guide des feuilles de type rouleau (6) comprend une plaque de guidage coulissante et un dispositif de commande (16) qui est fixé à ladite plaque de guidage pour faire fonctionner celle-ci.

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10. Imprimante selon la revendication 9, dans laquelle le dispositif de commande est un bouton (16) fixé à une extrémité de la plaque de guidage (6).

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