

Search history

Search 1: TAC=(letterpress and printing) (Results 2348)

Search 2: TAC=(1) and PD<20140204 (Results 2165)

Search 3: TAC=(2 and cylinder) (Results 479)

Search 4: TAC=(3 and ink) (Results 248)

Search 5: TAC=(4 and relief) (Results 65)

Title: Improvements relating to a Chemical Process for Engraving on Metal **Cylinders** in Intaglio or in **Relief**.

Abstract: Source: GB191221526A 21,526. Dumont, M., and Moor, L. de. Sept. 21. Etching.-In a process for etching designs in intaglio or **relief** on **printing-cylinders** of copper, brass, zinc, aluminium, steel, and c., the design is produced on the **cylinder** in a greasy **ink** by transferring or other method. The design is powdered over with colophony or lime and the **cylinder** treated with a weak solution of acid to remove all trace of grease. The **cylinder** is then coated with a solution of fish glue sensitized by means of a bichromate or other medium. The coating is dried in a dark-room, and after exposing to light, is flooded with water. The roller is then immersed in turpentine which removes the design and with it the emulsion on the design, and finally leaves the metal bare in these parts. The remaining coating is heated to render it acid-proof, and the roller is etched in acid. The design to be produced on the roller may be drawn on stone or zinc and the design **printed** in greasy **ink** on paper or sheet gelatine and transferred by pressure on to the roller. In a modification, the design may be reduced by photographic means from a drawing or the like, and the design **printed** from a photographic positive or negative plate in greasy **ink** on to a suitable sheet and transferred on to the roller, which is then etched. Specifications 2264/82, [Class 101, **Printing** other than **letterpress** and c.] and 27,165/10 are referred to.

Classifications:

International (IPC 8-9): B41C1/18 (Advanced/Invention);

B41C1/00 (Core/Invention)

CPC: B41C1/18

European: B41C1/18

Family:

Publication number	Publication date	Application number	Application date
GB191221526 A	19131021		00000000

Priority:

19120921

Probable Assignee: DUMONT MAURICE

Assignee(s): (std): DUMONT MAURICE ; MORR LEON DE

Assignee(s): LEON DE MORR ; MAURICE DUMONT

Inventor(s): (std): DUMONT MAURICE ; MORR LEON DE

Inventor(s): LEON DE MORR ; MAURICE DUMONT

Title: Improvements in or relating to the manufacture of **inking** surfaces

Abstract: Source: GB192364A 192,364. Soc. d'Exploitation des Procédés d'Impression Sardou, (Assignees of Soc. Sardou et Cie). Jan 28, 1922, [Convention, date]. **Inking**-apparatus rotary machines offset machines embossing and intaglio - plate **printing printing**-surfaces.- Rubber **inking**-surfaces for **inking** only the **printing** parts of **relief** or intaglio **printing**-surfaces, are obtained by moulding from a lead matrix coated with a uniform layer of sodium silicate. The design is impressed into the matrix by means of a stereotype or like surface. The **inking**-surface is obtained by moulding and vulcanizing a rubber sheet attached to a paper band, which serves subsequently for attachment of the **inking**-surface to the **inking**-roller. The Specification as open to inspection under Sect. 91 (3) (a) comprises also a machine for **printing** in several colours at one impression from a plate having a design in **relief** or intaglio, or from a rubber offset surface comprising a rotary **cylinder** A, Fig. 1 (Cancelled), to which a brass or zinc **printing**-plate M' is attached, or which may be fitted with a rubber offset surface, and a series of **cylinders** H fitted with rubber **printing**-surfaces I, and one or more similar **cylinders** M which are employed for **printing** additional impressions on the outside of a sheet which is **printed** on its underside with offset impressions collected by a rubber surface substituted for the plate. M<1>. The **cylinder** A is arranged to coat with an ordinary impression **cylinder** when **printing** from a **relief** surface or from an offset surface M<1>, the **cylinders** H applying **inks** of different colours in designs to the surface M<1>. The sheets are taken from a table L and delivered by a **cylinder** K. When both sides of the sheet are **printed**, the sheet is delivered by a **cylinder** K<1> after receiving an offset design on its underside, and a design in one or more colours from one or more **cylinders** M on its outside. The sheet is held by grippers N<1> to the **cylinder** A. When **printing** from a plate engraved in intaglio, the raised parts of the rubber surfaces on the **cylinders** H are adapted to apply **ink** directly to the depressed parts of the engraved plates, and the pressure member in this case takes the form of a counterplate attached to a curved member O supported by a rocking toggle-lever P, and attached to a radially moving slide Q<1> Fig. 5 (Cancelled). The member O at the commencement of the embossing operation is in the dotted line position, Fig. 5 (Cancelled), and clamps on the **cylinder** A act on clamps on the member O and the members Q<1>, P force the member O against the plate M<1> and so produce the **printing**-pressure, which is maintained until a block Q<1> on the **cylinder** acts on a lever T pivoted to the member O and returns it to the dotted line position. Stops X. X<1> limit the motion of the member O, and by moving the lever P by a handle R about its eccentric pivot Q, the member O may be tripped out of action. The **cylinder** A is normally driven by uniform gearing but it is driven by variable gearing arranged to have a slow motion when coating with the pressure-member O. The rubber surfaces I receive their **ink** from polished metal, or glass, rollers obtaining **ink** from plates supplied by gelatine rollers arranged in fountains. The rollers H are adjustable laterally and are mounted in eccentric bearings which are adjustable to enable the **cylinders** to move nearer to the **cylinder** A when **inking** of intaglio-surfaces is required. To obtain a cameo **printing**-plate, the brass plate M' is **printed** from the rubber surfaces I, covered with "Palestine bitumen" and the unprotected part of the plate etched. To obtain the intaglio plate, the brass plate is treated with powdered bitumen treated with a solution of lacquer, alcohol, celluloid, and acetone. The design is developed in benzine which acts on the **printed** portion only, and etching with iron chloride completes the process. This subject-matter does not appear in the Specification as accepted.

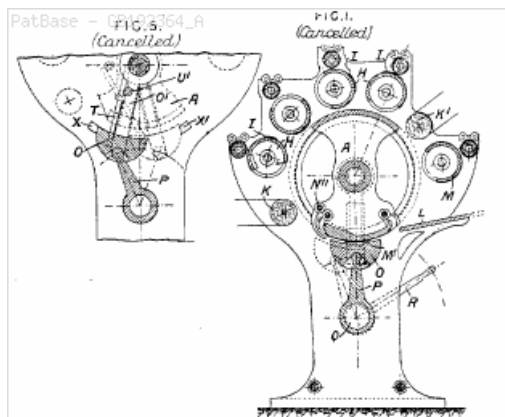
Classifications:

International (IPC 8-9): B41C3/04 (Advanced/Invention);

B41C3/00 (Core/Invention)

CPC: B41C3/04

European: B41C3/04



Family:

Publication number	Publication date	Application number	Application date
GB192364 A	19240110	GB19220029807	19221031

Probable Assignee: PROCEDES D IMPRESSION SARDOU S

Assignee(s): (std): PROCEDES D IMPRESSION SARDOU S

Assignee(s): LA SOC D EXPLOITATION DES PROCEDES D IMPRESSION SARDOU ; LA SOCIETE D EXPLOITATION DES PROCEDES D IMPRESSION SARDOU

Title: Improvements in or relating to **letterpress** or **relief printing**

Abstract: Source: GB432716A 3025. [Class 100 (ii)] To enable a **relief** or **letterpress** printingsurface to retain more **ink**, the surface is subdivided by etching, before being engraved in **relief**, into a large number of small intaglio cells or hollows of substantially even and uniform depth and size, which serve as **ink** cells, so that when the **ink** is transferred to the paper it spreads by capillary attraction, whereby the individual spots of **ink** become united into a continuous surface. The **printing**-plate may be of copper or zinc and the hollows are produced by any known etching process employing a photogravure screen, the depth of the etching being arranged according to the amount of **ink** to be transferred. The surface, so prepared, may be used as a mould for making lead or rubber stereos. According to the Provisional Specification, the etching may take place after the design has been formed, and the printingplate may be of rubber.

Classifications:

International (IPC 8-9): B41N3/00 (Advanced/Invention);

B41N3/00 (Core/Invention)

CPC: B41N3/00

European: B41N3/00

Family:

Publication number	Publication date	Application number	Application date
GB432716 A	19350729	GB19340003025	19340129

Priority:

GB19340003025 19340129

Probable Assignee: ROBINSON E S AND A LTD

Assignee(s): (std): ROBINSON E S AND A LTD ; THOMAS SHIRLEY FOWERAKER

Assignee(s): E S AND A ROBINSON LIMITED ; E S AND A ROBINSON LTD

Title: METHOD OF **PRINTING** AND APPARATUS THEREFOR

Abstract: Source: GB523952A 523.952. **Printing** surfaces; impression sur- faces; make-ready arrangements. STEVENS, A. H. (Frazier - Processes, Inc.). Oct. 18, 1938, No. 30123. [Class 100 (ii)] A **relief printing** plate having areas requiring different **printing** pressures to give auniform **print**, e.g., type and half tone blocks, is mounted on a resilient backing selected areas of which are rendered less resilient than others during **printing** by the provision of additional backing means at those areas or by a differential vul- canization of the backing. In one form, Fig. 1, a plate comprising half tone matter 15. and type matter 16 is mounted on a resilient, e.g., rubber, backing 12 having closely spaced integral projections 14 and between the plate and backing a sheet of paper 19 extends throughout the whole area of the plate and a further sheet of paper 18 is placed under the, half tone area. The various layers of the structure, which may include a fabric backing 13 for the backing 12, may be cemented together and secured to a wooden mounting block 10 by cement or by nails or screws 20 which permit slight vertical movement of the plate upon them. Or the composite structure may be mounted on a metal base having closely arranged holes into which at selected areas metal plugs may be inserted to back more firmly the corresponding areas of the plate. In the form shown in Fig. 13, a thin metal shell 61, e.g., an electrotype, is pro- vided with a backing layer 63 of vulcanizable material, e.g., a rubber sheet, a sprayed or painted layer of latex, or a layer of a mixture of latex and a flour of lead with tin, zinc or antimony. This layer is vulcanized differentially so that those areas requiring greater **printing** pressure are harder than the others. This may be effected by applying to the back of the layer an impression in an adhesive **ink** at the parts required to be harder, dusting the impression with sulphur and then vulcanizing; or the impression may be made in an **ink** comprising latex with an accelerator for the vulcanization process ; or the back of the layer may be exposed to heat rays through a suitable stencil to give a preliminary curing before the whole layer is vulcanized. The layer 63 may have a fabric layer 65 and a bottom layer 64 of metal or rubber which becomes hard and rigid upon vulcanization. The shell 61, prior to receiving the backing 63 may be coated with metal which fills the depressions in the back of the shell, the coating being shaved to render it smooth and flat, The **printing** structures may be used in flat condition or may be made thin and flexible for use on rotary machines. The impression **cylinder** employed with the structure has a resilient sheet supporting surface of less resiliency than that of the **printing** plate and may consist of a cork surface with a sheet supporting surface of a phenol-formaldehyde condensation product.

Classifications:

International (IPC 8-9): B41M9/00 (Advanced/Invention);

B41M9/00 (Core/Invention)

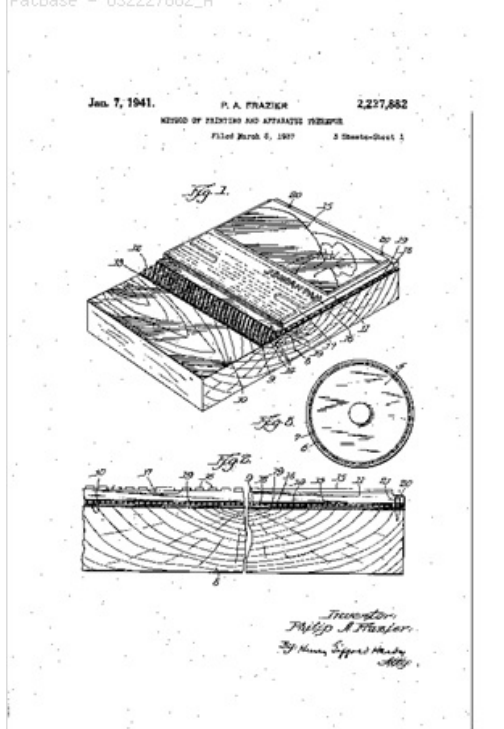
International (IPC 1-7): B41M9/00

CPC: B41M9/00

European: B41M9/00

US: 101/401.3

PatBase - US2227882_A



Family:

Publication number	Publication date	Application number	Application date
GB523952 A	19400726	GB19380030123	19381018
US2227882 A	19410107	US19370129211	19370305

Priority:

US19370129211 19370305

Probable Assignee: FRAZIER PROCESSES INC

Assignee(s): (std): FRAZIER PHILIP A ; FRAZIER PROCESSES INC

Inventor(s): (std): FRAZIER PHILIP A

Title: Improvements relating to apparatus for applying liquid adhesive to the surface of sheet material

Abstract: Source: GB536880A 30593/39. Drawings to Specification. [Class 100 (ii)] A deposit of gum is applied to a sheet of paper in localised areas by a **relief** forme in a **letterpress** machine with resilient rubber inkingrollers. The press is used with a supply of gum instead of **ink** and may consist of an horizontal or a vertical **cylinder** machine or a platen press. The press has preferably the usual differential micrometer adjustment of the **ink** feed. The sheets are led on an endless-conveyer belt through the usual drying chamber.

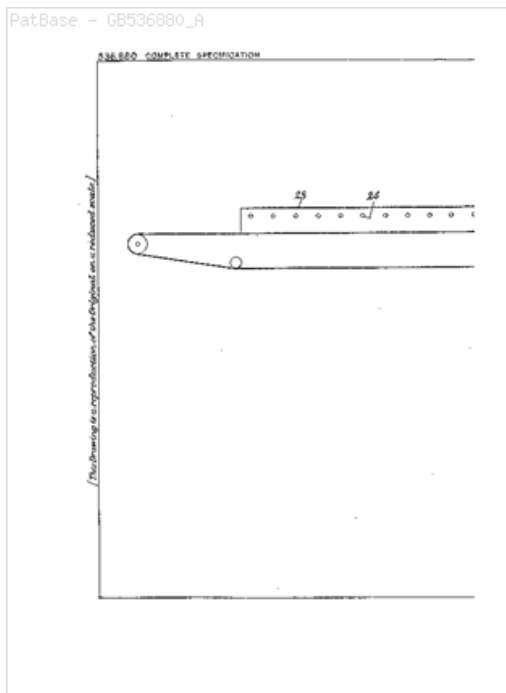
Classifications:

International (IPC 8-9): B05C1/16 (Advanced/Invention);

B05C1/04 (Core/Invention)

CPC: B05C1/165

European: B05C1/16A



Family:

Publication number	Publication date	Application number	Application date
GB536880 A	19410530	GB19390030593	19401009

Priority:

GB19390030593 19401009

Probable Assignee: CHARLES HENRY SMITH

Assignee(s): (std): CHARLES HENRY SMITH ; CRAFTON PRESS LTD

Assignee(s): CRAFTON PRESS LIMITED

Title: Letter-press **printing** process

Abstract: Source: GB543393A Drawings to Specification. [Class 2 (iii)] [Also in Group XVI] The Specification as open to inspection under Sect. 91 described a special covering for the impression **cylinder** of a rotary **printing** press comprising a fabric coated with a synthetic resin and aluminium powder. This subjectmatter does not appear in the Specification as accepted.

Classifications:

International (IPC 8-9): B41M1/02 C09D11/02

C09D11/10 (Advanced/Invention);

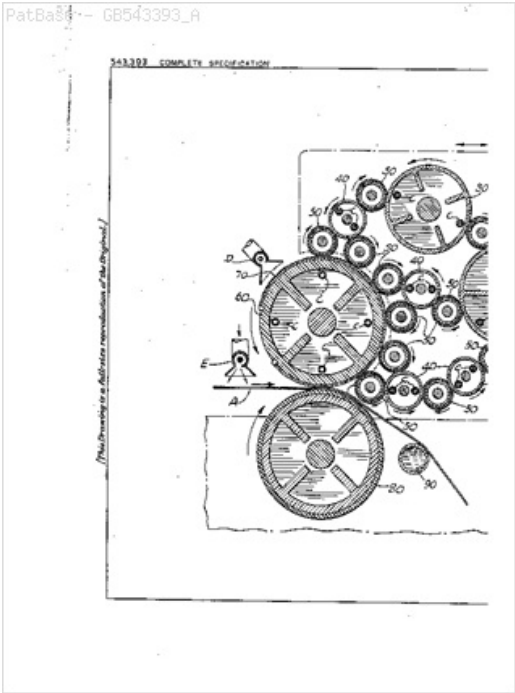
B41M1/00 C09D11/02 C09D11/10 (Core/Invention)

International (IPC 1-7): B41F17/00 B41M1/02 C09D11/02

C09D11/10

CPC: B41M1/02 C09D11/02 C09D11/10

European: B41M1/02 C09D11/02 C09D11/10



Family:

Publication number	Publication date	Application number	Application date
BE439139 A	00000000		00000000
CH226040 A	19430315		19400703
FR876744 A	19421116		19400803
GB543393 A	19420224	GB19400011929	19400719

Priority:

19390803

Probable Assignee:

HUBER J M INC

Assignee(s): (std):

HUBER J M INC ; J M HUBER INC

Assignee(s):

HUBER J M

Inventor(s): (std):

M INC HUBER J

Inventor(s):

M

Title: Photogravure **printing** surfaces

Abstract: Source: GB706689A 706,689. Producing intaglio **printing** surfaces. GRAVURE ENTERPRISES, Inc. June 19, 1950, No. 15312/50. Drawings to Specification. Class 98(2) An intaglio **printing** surface is produced by forming in a light-sensitive emulsion a latent image of both a half-tone image having picture forming elements or dots which are separated in the high lights and which coalesce or are connected together in the deeper tones, and of a uniform fine gravure screen of at least 300 lines per inch such that it divides the half-tone picture forming elements or dots, developing the emulsion, and utilizing it for the preparation of a **printing** surface. A light-sensitive film may be exposed first to a fine cross-line gravure screen, a half-tone image **ink-printed** on the exposed film and the latter further exposed, and the **ink print** removed, e.g. by washing in benzene. The film is then developed, fixed, washed and dried, and is **printed** on to a further film to produce a positive which is used to produce an etching resist, e.g. on "line tissue". The **printing** step may be avoided by processing the first film to a positive by reversal. The resist is applied to a copper-plated **cylinder**, which is given a single etching in a ferric chloride bath. The **printing** surface may be chromium plated. For colour **printing**, **cylinders** are so prepared for each of the colours yellow, red and blue, and for black. The positive may be prepared without the use of the fine gravure screen, and the resist prepared by **printing** from the fine screen and the positive. Films or resists bearing latent images of the fine gravure screen may be prepared in advance and stored. The **ink-print** of the half-tone image may be made on a thin transparent sheet and this photographically **printed** on to the film bearing a latent image of the fine gravure screen. The half-tone **printing** surface may be inked up and photographed, or an **ink print** therefrom may be photographed, the resulting photographic image being in each case photographically **printed** on to the film bearing a latent image of the fine gravure screen. In any of the above cases, the **print** of the half-tone image may be made first on the film to record the combined images, and the image of the fine gravure screen recorded subsequently. An **ink-print** of the half-tone **printing** surface may be made on to a transparent sheet, a film **printed** photographically therefrom, and this film and a negative fine gravure screen **printed** simultaneously on to a further film. Specifications 421,529 and 706,688 are referred to.

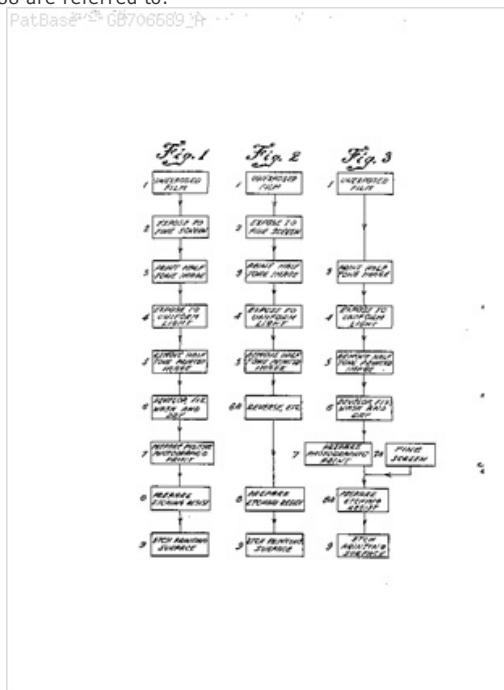
Classifications:

International (IPC 8-9): G03F5/20 (Advanced/Invention)

International (IPC 1-7): G03F5/20

CPC: G03F5/20

European: G03F5/20



Family:

Publication number	Publication date	Application number	Application date
DE864809 A	19530129	DE1950G004444	19501028
FR1026203 A	19530424		00000000
GB706689 A	19540407	GB19500015312	19500619

Priority:

GB19500015312 19500619 DE1950G004444 19501028

Probable Assignee: GRAVURE ENTPR INC

Assignee(s): (std): GRAVURE ENTPR ; GRAVURE ENTPR INC

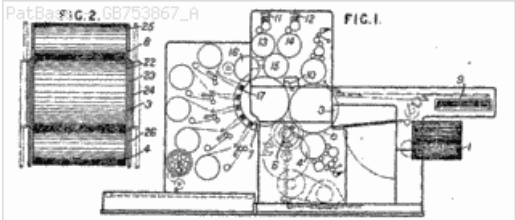
Assignee(s): GRAVURE ENTERPRISES ; GRAVURE ENTERPRISES INC

Inventor(s): (std): SPORTELLI FRANK A ; SPORTELLI FRANK ANTHONY

Title: Improvements in rotary presses for **printing** bank notes and the like

Abstract: Source: GB753867A 753,867. **Printing** - machines. VEB DRUCKMASCHINENWERK VICTORIA. Feb. 25, 1954, No. 5576/54. Class 100 (2). A rotary press for **printing** banknotes and the like has a single impression **cylinder** with which co-operates an intaglio or like **printing cylinder** and a **relief printing cylinder**, the impression **cylinder** having at its ends bearer rings of differing diameters engaged by bearer rings on the **printing-cylinders**, the diameters of the rings being such that the requisite contact pressures between the **printing-cylinders** and the impression **cylinder** are obtained. In Fig. 1 wetted paper sheets fed from a pile 1 to an impression **cylinder** 3 are carried past a ground tint **printing-cylinder** 4 (made-ready from below), a drier 6 (using infra-red and ultraviolet radiators and a dry air blast, or one of these), an intaglio plate **cylinder** 7, and a numbering **letterpress cylinder** 8, and are then delivered by a tape conveyer to a stack 9 **printed** side up; any ground tint on the **cylinder** 7 is wiped off by a roller 10, and **ink** in a twocolour design is then applied by a **cylinder** 15 which collects from two patterned **cylinders** 13, 14 having **ink** fountains 11, 12; the roller device 16 is stated to fill the depressions in the intaglio plates, and the wiper device 17 removes the **ink** outside these depressions. The impression **cylinder** 3 has bearer rings 22, 23, 24, Fig. 2, of different diameter on which ride respectively the bearer rings 25, 26 of the **cylinders** 8, 4, and similar bearer rings, not shown, of the plate **cylinder** 7. The **cylinders** 4, 7, 8 are geared to the impression **cylinder** 3.

Classifications:
International (IPC 8-9): B41F11/00 (Advanced/Invention);
B41F11/00 (Core/Invention)
International (IPC 1-7): B41F11/00
CPC: B41F11/00
European: B41F11/00



Family:

Publication number	Publication date	Application number	Application date
GB753867 A	19560801	GB19540005576	19540225

Priority:

GB19540005576 19540225

Probable Assignee: DRUCKMASCHINENWERK VICTORIA VE
Assignee(s): (std): DRUCKMASCHINENWERK VICTORIA VE
Assignee(s): VEB DRUCKMASCHINENWERK VICTORIA
Inventor(s): (std): HEINEMANN WALTER ; KALTSCHMIDT GEORG

Title: IMPROVEMENTS RELATING TO THE ELECTRICAL PRODUCTION OF **PRINTING** SURFACES

Abstract: Source: GB771542A 771,542. Local copying by scanning. CROSFIELD, Ltd., J. F. Sept. 2, 1955 [Sept. 9, 1954; Jan. 18, 1955], Nos. 26174/54 and 1534/55. Class 40 (3). A flat or cylindrical **printing** surface corresponding to an original which is scanned photoelectrically is produced by a spark discharge between an electrode and a flat plate or **cylinder** of metal on which the **printing** surface is to be formed by the removal of amounts of metal to leave a series of small cavities representing the corresponding picture elements of the original to be copied. The flat original 1 is mounted on a member 2 slidable on a table 3 and between guide supports 4 and is scanned by a beam derived from a light source 5 in conjunction with lenses 8, 10 and reflected by a mirror 9 to an aperture 11 in a casing 12 enclosing a multiplier photo-cell. The mirror is rocked by a cam 14 on the shaft 15 of the recording drum 16 and a disc 17 has an arcuate slot 18 which blocks the aperture 11 during the return movement of the scanning beam. If the original 1 is opaque a reflected scanning beam is derived from a linear light source 6 backed by a hood 7. The output from the photo-cell is passed to a discharge head 20 carrying the electrode 19 and mounted on a pillar 21 fixed to the slide 2 which is traversed by a nut 26 engaging a threaded shaft 25 rotated by gears 22, 23, 24 from a motor (not shown). A tone wheel 35 has a disc with magnetized and demagnetized rim portions co-operating with a pick-up head 36 to provide a chopper frequency waveform which is shaped at 38 and fed to the photo-cell circuit of which the output is amplified and corrected in circuits 41, 42 and passed to a further stage 43 to provide an output which is amplitude and/or time modulated. The final stage 44 may include a triode amplifier or a power cathode follower, or as indicated in Fig. 7, a triode 49 with a normal negative grid bias at 50 and a capacitor 45 which is charged over resistor 47 when the valve is non-conducting and is discharged when the valve is made conductive by the positive peaks of the input to provide the discharge pulses between the electrode 19 and the **cylinder** 16. A second electrode 19A diametrically opposite the electrode 19 simultaneously reproduces the original on the opposite half of the drum which is preferably coated with a very thin film of insulating material containing a flux. Specification 767,505 is referred to.

Classifications:

International (IPC 8-9): B23H9/06 B41C1/02 B41C1/05

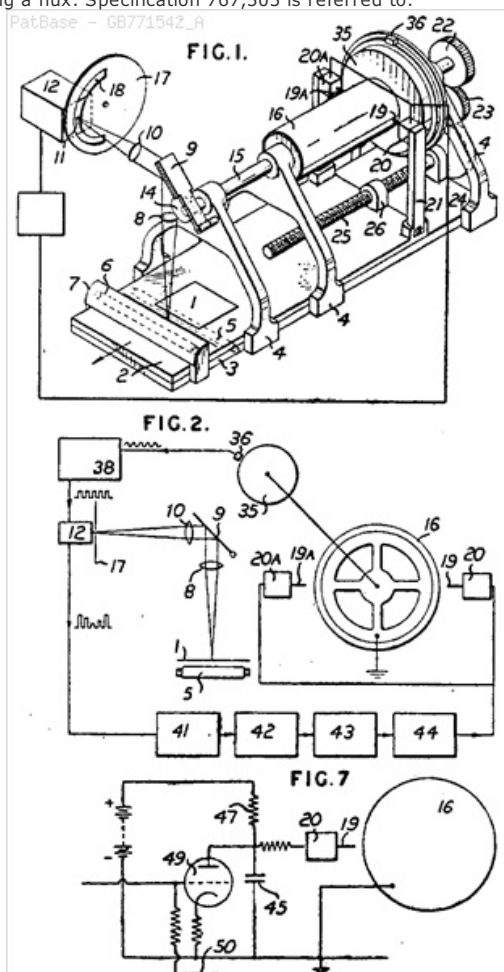
G03F3/08 (Advanced/Invention);

B23H9/00 B41C1/02 G03F3/00 (Core/Invention)

International (IPC 1-7): B41F23/00

CPC: B23H9/06 B41C1/02 B41C1/05

European: B23H9/06 B41C1/02 B41C1/05



Family:

Publication number	Publication date	Application number	Application date
CH328765 A	19580331		19550909
DE1009027 B	19570523	DE1955C011795	19550908
FR1135995 A	19570507		19550909
GB771542 A	19570403	GB19540026174	19540909

Priority:

GB19540026174 19540909 GB19550001534 19550118

Probable Assignee: CROSFIELD J F LTD

Assignee(s): (std): CROSFIELD J F LTD ; J F CROSFIELD LIMITED ; J F CROSFIELD LTD

Assignee(s): JF CROSFIELD LTD

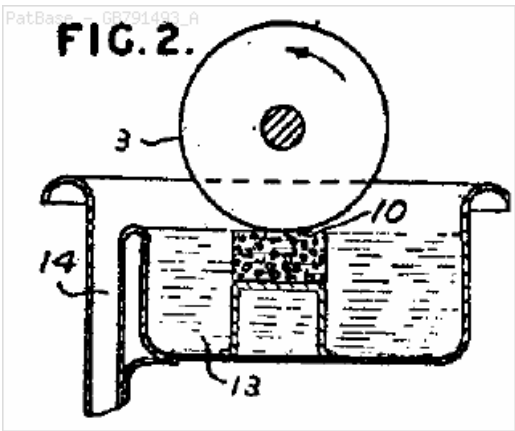
Inventor(s): (std): ALLEN GORDON STANLEY JAMES ; CROSFIELD JOHN FOTHERGILL ; JOHN FOTHERGRILL CROSFIELD ; STANLEY JAMES ALLEN GORDON

Inventor(s): FOTHERGRILL CROSFIELD JOHN ; JAMES ALLEN GORDON STANLEY

Title: Improvements in or relating to **printing** machines

Abstract: Source: GB791493A 791,493. **Printing**-machines. DICKINSON and CO. Ltd., J. July 26, 1056, No. 23099/56. Addition to 739,378. Class 100(2) Set-off, preventing. In a rotary offset **printing** machine the impression **cylinder** 3 is cleaned after each impression by an absorbent roller or pad 10 disposed in a bath of **ink** solvent 13; the pad surface either projects above the surface of the solvent, or as shown is level therewith as maintained by an overflow 14. The arrangement is stated to remove letter-press **ink** readily, thus enabling an offset machine having a **relief printing cylinder** as described in Specification 765,325 to be used for letter-press **printing**.

Classifications:
International (IPC 8-9): B41F35/00 (Advanced/Invention);
B41F35/00 (Core/Invention)
International (IPC 1-7): B41F11/00
CPC: B41F35/006
European: B41F35/00E



Family:

Publication number	Publication date	Application number	Application date
GB791493 A	19580305	GB19560023099	19560726

Priority:

GB19560023099 19560726

Probable Assignee:	DICKINSON JOHN AND CO LTD
Assignee(s): (std):	DICKINSON JOHN AND CO LTD
Assignee(s):	JOHN DICKINSON AND CO LIMITED
Inventor(s): (std):	BONSOR DAVID VICTOR