

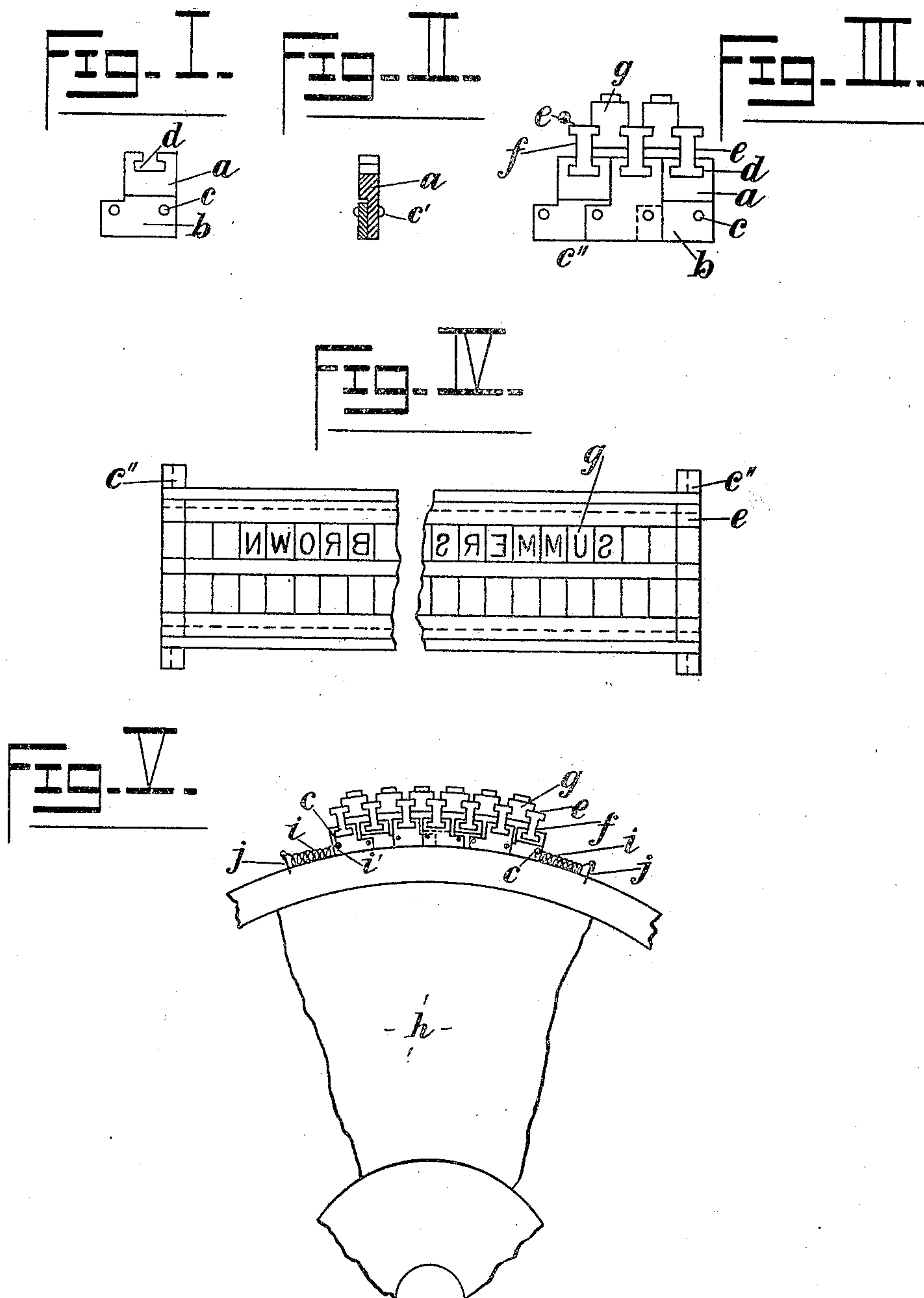
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PATENTED JAN. 14, 1908.

S. BROWN.

FLEXIBLE FORM FOR HOLDING AND ASSEMBLING TYPE.

APPLICATION FILED JAN. 14, 1907.



Witnesses.

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UNITED STATES PATENT OFFICE.

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FLEXIBLE FORM FOR HOLDING AND ASSEMBLING TYPE.

No. 876,521.

Specification of Letters Patent.

Patented Jan. 14, 1908.

Application filed January 14, 1907. Serial No. 352,155.

To all whom it may concern:

Be it known that I, SUMMERS BROWN, residing at 40 Whitecross street, London, England, Great Britain, have invented a certain new and useful Improvement in Flexible Forms for Holding and Assembling Type; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention consists of a flexible chain form carrying a series of type bars constituting a form for holding type, and enabling the same when set up to be mounted upon and secured to any form of rotary printing cylinder or drum, the object I have in view being to enable type characters, figures, stops or the like to be set up in suitable grooves between the type bars fitted to the chain as hereinafter described upon any suitable and convenient surface, and when filled to wrap or otherwise mount and secure the flexible chain form thus constructed upon any kind of rotary printing cylinder or drum. After the desired number of copies have been printed, the flexible chain form may be removed from the drum or drums as the case may be, hung up, or stored away for reuse as often as required, or the type may be distributed.

The way and manner in which I carry out my invention will be readily understood by reference to the drawing in which:—

Figure 1. shows a single link of the chain carrying the type bars on an enlarged scale. Fig. 2. is a sectional view of two links riveted together. Fig. 3. is a side elevation showing three links, the type bars and type mounted therein as it would appear when laid upon any convenient surface for composing. Fig. 4. is a general plan of chain supported form showing the type when set up. Fig. 5. is a side elevation of part of a drum showing flexible chain form and type mounted therein.

In the drawings —a— is an L-shaped link, the lower part of each link —b— is recessed or cut away sufficiently to enable the next link to be stepped into it; and so shaped and pivoted as to render it self-locking; a hole is drilled as at —c— and the next link secured to the first by a rivet, pin or the like —c'— the third link being secured to the two first in a similar manner, and so on until a flexible chain —c''— of any desired length is formed. The upper part of each link may be slotted

dovetail, T, or other shape as at —d— for the type bar —e— grooved as at —f— for the reception of the type, or this bar may be attached to the links by screws, or in any other convenient manner having the same effect. The type characters —g— are inserted in the groove —f— formed by contiguous type bars —e—. The drawing shows in Fig. 4. two chains —c''— one at each end, but if necessary in the case of larger forms, the number may be increased to give such support as is necessary. Fig. 5. is an end view of a printing cylinder —h— showing chain form slotted type bar as described and the type therein.

It will be understood that when the chain is wrapped round a cylinder such as that shown, the links diverge slightly at the periphery. The flexible form is fastened to the rotary printing cylinder, drum, part of the same or carrier by any suitable means such as a spring —i— having hooks —i''— which engage with holes —c— in the links at both ends of each chain, and are secured to a pin —j— or the like attached to any suitable part of the cylinder or drum, the strength of the spring preventing the form from shifting its position.

An important feature of my invention consists in the fact that the flexible self-locking form enables the type to be set up therein or thereon in any convenient position, and then permits the form with the type so set up to be safely removed, mounted upon and secured to any kind of rotary printing cylinder, drum, part of the same or carrier, so that the type cannot escape from type bars in transit.

I may modify the make up of the chain and type form bars or the form of type character or means of fastening in various ways to suit special types of rotary printing machines without in any way departing from the nature of my invention.

It will be seen that since the type is set up in flexible forms independently, the rotary printing machine of whatever type can be kept constantly employed and that very little interruption or loss of time takes place in the removal of the form, and the mounting up of fresh matter.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a rotary printing machine, a flexible form composed of two chains of pivoted interlocking links, grooved transverse bars engaging with said chains and supported there-

by and type characters fitting in the grooves of said bars and interlocking therewith, the whole constituting a flexible form adapted to be wound on a type cylinder.

5 2. In a flexible type form adapted to be fastened on a printing cylinder, a pair of chains consisting of overlapping pivoted links in combination with transverse type-bars supported by said chains and type characters
10 fitting said bars, the said links and bars being adapted to hold said type characters in place on a cylinder substantially as set forth.

15 3. In a flexible type-form for a cylinder, a pair of chains each consisting of a series of L shaped links, overlapping and pivoted to each other in their lower parts and recessed on top, in combination with transverse type-holding bars fitting in said recesses, inter-

locking with the walls thereof and type-characters fitting on said bars and interlocking therewith substantially as set forth. 20

4. In a flexible type-form for printing cylinders, a flexible chain consisting of a series of flat L form plates, forming links the lower parts of which overlap each other and
25 are pivoted together, each link being adapted to receive means for supporting type characters substantially as set forth.

In witness whereof, I have hereunto signed my name in the presence of two subscribing
30 witnesses.

SUMMERS BROWN.

Witnesses:

FREDK. L. RAND,
RICHARD C. ROGERS.