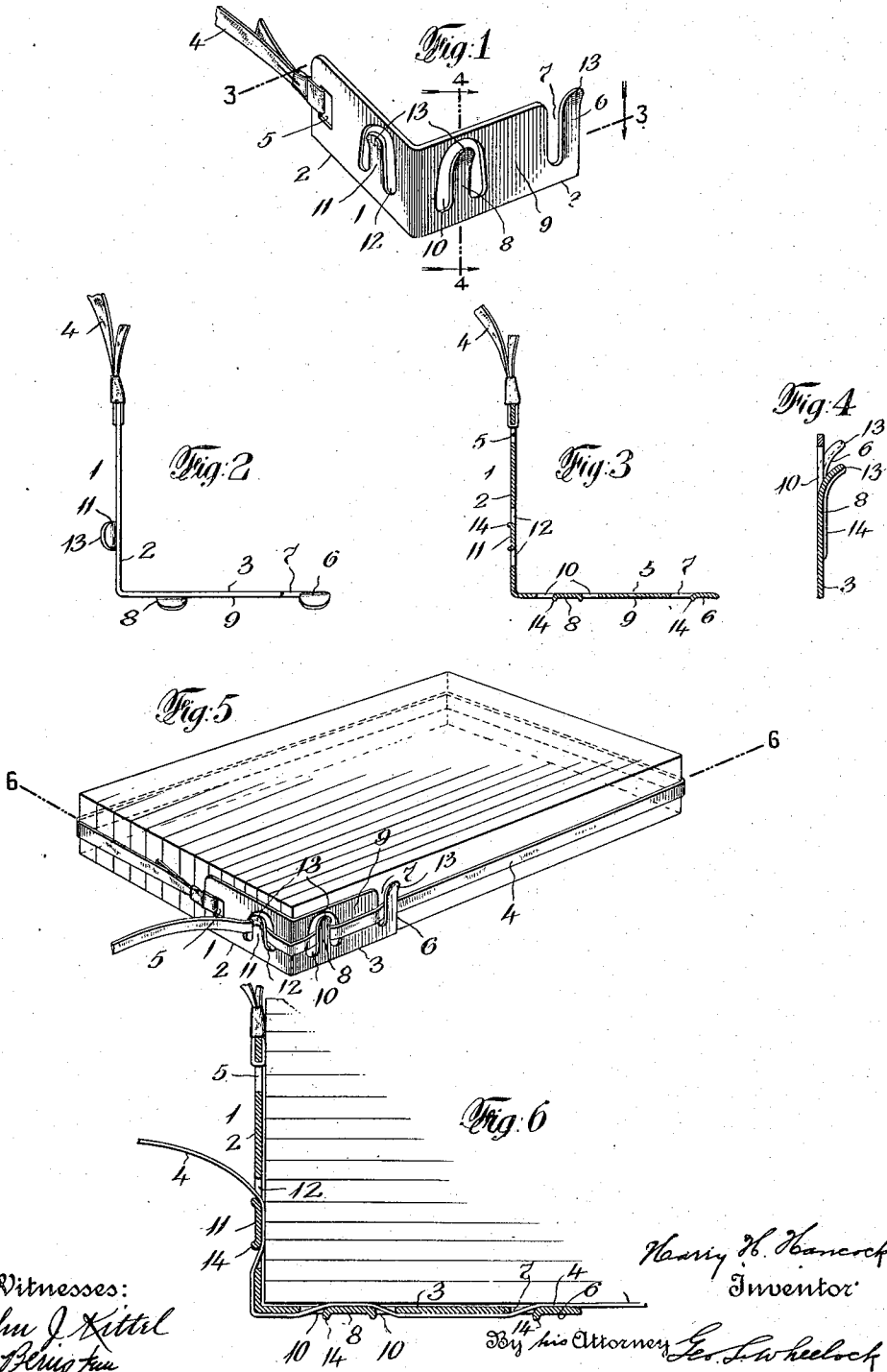


H. H. HANCOCK.
 TYPE BINDER.
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1,228,019.

Patented May 29, 1917.



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TYPE-BINDER.

1,228,019.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HARRY H. HANCOCK, a citizen of the United States, residing at Swampscott, county of Essex, and State of Massachusetts, have invented certain new and useful Improvements in Type-Binders, of which the following is a specification.

This invention relates to type binders, that is to say means for binding or confining type or type and engraved blocks, after they have been set up or placed in a galley. Devices for this purpose are known, but it is the object of the present invention to overcome a number of the objections thereto. Ordinarily a string or tape is tied around the page of type, as this is the simplest and cheapest means known, but the use of such a tie involves expense inasmuch as it consumes time. The known tying devices for accomplishing the desired end of tying the type, which include means for securing the string or tape as by the fastening device to which the string or tape is attached, are more or less complicated, expensive, and are not adapted to secure the string by a friction between the type and the fastening device.

Some of the objects of my invention are therefore to provide a simple, durable and efficient type binding device which fastens the tie or string by proper friction between the type and the binding device proper.

These being among the general objects of the present invention, the same consists of certain features of construction and combinations of parts to be hereinafter described and then pointed out in the claims, reference being had to the accompanying drawing illustrating a desirable embodiment of the invention, in which—

Figure 1 is a perspective view of a type binder showing the invention;

Fig. 2 is a view looking toward the upper edge of the device;

Fig. 3 is a longitudinal section on the line 3—3 Fig. 1;

Fig. 4 is a transverse section on the line 4—4 Fig. 1;

Fig. 5 is a perspective view showing a type binder covered by the present invention, in use; and

Fig. 6 is a horizontal section on the line 6—6 Fig. 5, showing how the tie is clamped and held frictionally between the type and the type binder.

Referring to the drawings, the body 1 of

the tie attaching means is preferably composed of sheet metal, and said body is preferably elongated and bent into angular form so as to provide two arms 2, 3, which extend substantially at right angles to each other. One end of a tie 4, such as a string or tape is attached to one end of the body or plate 1, for which purpose the end of the said plate is preferably provided with an opening through which said end of said tie is passed and then secured to the body of the tie.

Plate or body 1 is provided with suitable means for frictionally binding and holding the free end of the tie 4, by friction and a binding action between the said plate or body and the type which are to be bound. To this end said plate or body may be provided with tongues which extend transversely of the plate or body and are struck up from the metal. Three tongues or lips are shown. Tongue 6 is located at the end of the plate or body opposite that to which the tie 4 is attached, and it is spaced at one edge away from the adjacent portion of said plate or body by means of a slot or recess 7. The next tongue 8, preferably having parallel side edges, is located on the same arm of the plate or body as the tongue 6, but is preferably separated from the latter by means of a portion 9 of said plate or body of sufficient width so as to provide a surface on which to press the thumb in applying the binding device. Said tongue 8, being located adjacent the corner of the angle plate or body 1, is also spaced away from the plate, it being separated therefrom by means of a substantially U-shaped slot 10, such a form of slot being preferable to cutting through that edge of the plate or body toward which the free end of said tongue extends. A similar tongue 11 and slot 12, also adjacent the corner of the angle plate or body, are preferably provided in the other arm of said plate.

The free ends 13 of the tongues 6, 8 and 11 are preferably tapered and bent or presented out and away from the plate or body, so as to facilitate the lateral engagement of the tie 4 over said tongues. To avoid cutting the tie 4, the side edges of the said tongues are preferably turned outwardly, as indicated at 14. This also stiffens the said tongues and tends to maintain the same in the plane of the body of the device so that a stronger hold upon the tie is provided.

The manner of using and applying the

improved type binder to a page of type may best be seen from Figs. 5 and 6. The angle plate or body 1 is applied to one corner of the page of type so as to fit thereupon, and the printer then passes the tie 4 around the four sides of the page of type, and then engages the tie over the tongue 6, passing it through the slot or recess 7. Pressing the thumb upon the tie which is extended over the body portion 9, the printer engages the tie over the next tongue 8, and into the sides of the slot 10, and passing the tie around the corner of the plate engages the tie over the next tongue 11 on the other arm of said plate. The page of type will now be firmly bound, if the operator uses sufficient tension. It will be seen that the tie is firmly bound and held by the combined frictional engagement with the tie, of the tongues 8 and 11 and the page of type which is confined. By bending the tie around the corner of the plate or body, additional friction, and assurance against loosening of the tie, is provided.

The improved type binder of the present invention is a little less than type high, and by a little practice the printer can obtain a binding action which is practically instantaneous in action, as the angle plate or body, if such be used, does not require its being held in position while drawing the tie around the page of type. The lower edge of the plate or body 1 is adjusted in position so that its lower edge is on a level with the bottom of the type.

The described device is obviously susceptible of various modifications, as parts may be omitted, parts added and parts differently arranged and constructed without departing from the scope of the invention.

What I claim as new is:—

1. A type binder, comprising an angle-plate, the angle of which forms an outer corner, a series of friction tongues or lips located on the arms of said angle-plate so that said corner is at a point between said tongues, said tongues extending substantially in the plane of those arms on which they are located, and a tie exemplified by a tape, attached to one end of said plate and adapted to be engaged over the free ends of said tongues or lips, said corner constituting additional friction means over which the said tie may be turned.

2. A type binder, comprising an elongated body, a friction tongue formed from said body and surrounded at its sides and free end by a part of said body, from which said tongue is spaced, said free end extending toward one side of said body, a transverse tongue extending from one end of said body, the other end of said body being substantially at right angles to said body and provided also with a tongue, and a tie exemplified by a tape, attached to said other end of said body and adapted to be engaged over the free ends of said tongues with said tongues.

3. A type binder, comprising an elongated body, of angular formation to provide two arms, a friction tongue on each of said two arms, surrounded at its sides and free end by a part of said body, from which said tongue is spaced, said free end extending toward a side of said body, and a tie exemplified by a tape, attached to one end of said plate and adapted to be engaged over said free ends with said tongues or lips.

4. A type-binder, comprising an angle-plate, the angle of which forms an outer corner, a series of friction members located on the arms of said angle-plate so that said corner is at a point between said members, said members being arranged to cooperate with the outer surfaces of those arms on which they are located, and a tie exemplified by tape, attached to one end of said plate and adapted to be engaged over the said members, said members and said surfaces being adapted to exert friction on said tape, and said corner constituting additional friction means over which the said tie may be turned.

5. A type-binder, comprising in combination a plate of angular formation to provide two distinct arms arranged substantially at right angles to each other, friction means on both of said arms and a tie attached at one end to said plate at a point laterally of said friction means, the outer angle of said plate at the junction of said arms providing friction means to cooperate with aforesaid friction means in binding and securing the free end of said tape.

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