(No Model.)

A. ZICHTL & T. C. BRECHT.

APPARATUS FOR MARBLEIZING OR ORNAMENTING BOOKS, &c.

No. 450,307. Patented Apr. 14, 1891.

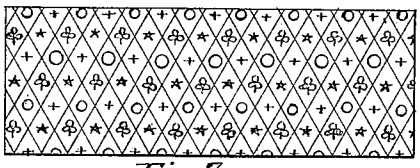


Fig. 7.

Fig. 1.

Fig. 8.

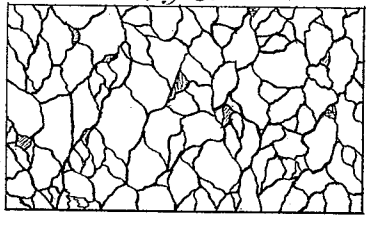


Fig. 2.

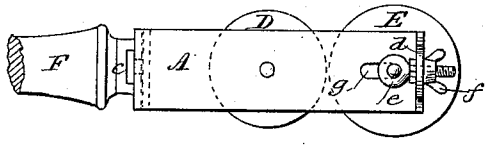


Fig. 9.

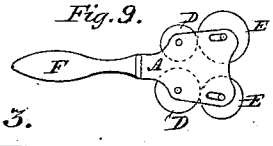


Fig. 3.

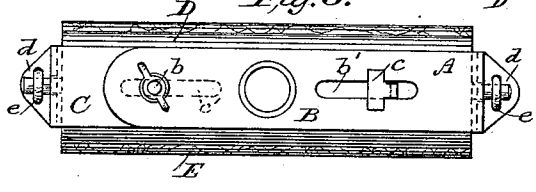


Fig. 4.

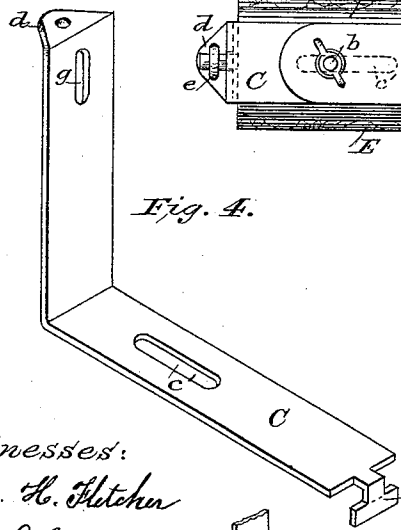


Fig. 5.

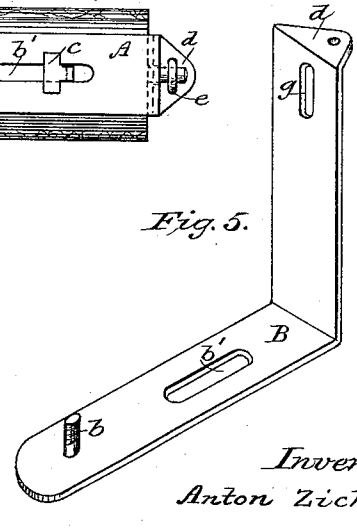




Fig. 6.

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Attorney.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ANTON ZICHTL AND THEODORE C. BRECHT, OF WASHINGTON, DISTRICT OF COLUMBIA.

APPARATUS FOR MARBLEIZING OR ORNAMENTING BOOKS, &c.

SPECIFICATION forming part of Letters Patent No. 450,307, dated April 14, 1891.

Application filed June 8, 1887. Renewed August 5, 1890. Serial No. 361,082. (No model.)

To all whom it may concern:

Be it known that we, ANTON ZICHTL, a subject of the Emperor of Austria-Hungary, and THEODORE C. BRECHT, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Apparatus for Marbleizing or Ornamenting Books, &c.; and we 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.

Our invention relates to an improved apparatus for marbleizing or ornamenting the edges of books, &c., with self-inking rollers; and the object of the invention is to produce an apparatus by which the edges of books, &c., can be marbleized or ornamented in any desired style in an expeditious and economical manner.

A further object is to construct the apparatus in such manner that the inking and ornamenting rollers can be adjusted closer to each other or farther apart, as desired; also, to provide means by which narrower or wider rollers can be employed in the same frame by the substitution of one for the other and adjusting the frame accordingly.

Our invention consists in the construction and combination of parts, as will be more fully described hereinafter, and specifically pointed out in the claims, reference being had to the accompanying drawings, and the letters of reference marked thereon.

Like letters indicate similar parts in the different figures of the drawings, in which—

Figure 1 represents a top or plan view of the apparatus, partly in section. Fig. 2 is a side view of the same. Fig. 3 is a rear end view of the same. Figs. 4 and 5 are detail views of the frame. Fig. 6 is a detail modification of the adjustable frame. Figs. 7 and 8 are designs of the edges of books made with the apparatus. Fig. 9 is a modification of the apparatus.

In the drawings, A represents a frame made of any suitable material—such as sheet-iron, brass, composition, &c.—and preferably in two parts, the rear sides being made adjustable. One part B is provided with a thumb-screw *b*, passing through a slot *c'* in the other part C, while a T-headed projection *c* passes through slot *b'* and is clinched, as shown in Fig. 1. In the sides of the frame are journaled the inking-roller D and the roller E, having upon it any suitable design for marbleizing or ornamenting the edges of the books or other object desired to be ornamented. At the forward end of said sides are arranged the ears or lugs *d*, through which the eye-screws *e* pass, having upon them the thumb-screws *f*, while the eyes pass over the journals of the roller E, so that it can be moved closer to or farther away from said roller. The ends of the journals pass through the slots *g* in said side pieces. If desired, the lugs *d* and the eye-screws *e* may, however, be placed as shown by the dotted lines.

In the modification shown in Fig. 6 the part B is provided with a spring-pin *h*, which engages with either of the holes *i* in the part C, according to the width of the rollers required for use. In this instance the part C has curved ears or catches *c''*, with which the flat part of B engages, and can be moved in and out, as desired.

A handle F is secured to the part B, and when properly adjusted the apparatus is operated by it.

The roller D is made of a central core of iron, wood, or other suitable material, and is covered with flannel, felt, cotton, or material that will retain the colors, and the roller E is made entirely or in part of vulcanized rubber or its equivalent and has upon it the design it is intended to imprint on the edges of the book, &c. It may, however, be made of electroplate or any other suitable material, and both rollers can be made of any size or configuration desired.

If desired, two or more inking and ornamenting rollers may be employed in the same frame, so as to imprint several colors at the same time. The different rollers may also be of different diameters; but the inking-rollers should usually be the smallest.

If desired, two or more rollers may be used, as seen in Fig. 9, and the rollers may be of

different sizes. The ornamenting-rollers can also be made of any of the ordinary compositions used in place of rubber.

Having thus described our invention, what we claim is—

1. The improved frame for inking and ornamenting rollers, consisting of two angle-bars adjustable one upon the other, each bar having in one arm bearings for the rollers and in the other arm slots, as shown, one bar having also a screw-threaded stud and the other bar having a T-headed projection passing through the slot in the other bar and bent down thereupon.

2. The combination, with the hand-frame and the inking-roller journaled therein, of the ornamenting-roller journaled in eye-rods adjustably mounted on said frame, substantially as described.

3. The combination, in an apparatus for ornamenting books, &c., of a hand-frame and two independent sets of inking and ornamenting rollers journaled in said frame, whereby several colors may be applied simultaneously or separately, as and for the purpose set forth.

In testimony whereof we hereby affix our signatures in presence of two witnesses.

ANTON ZICHTL.
THEODORE C. BRECHT.

Witnesses:
FRED H. FLETCHER,
M. P. CALLAN.