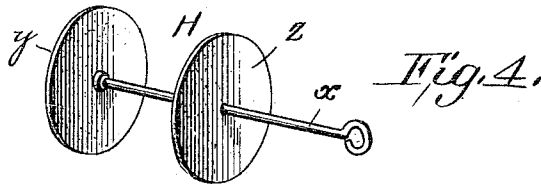
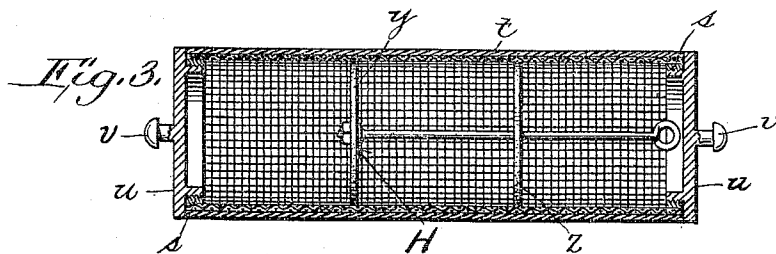
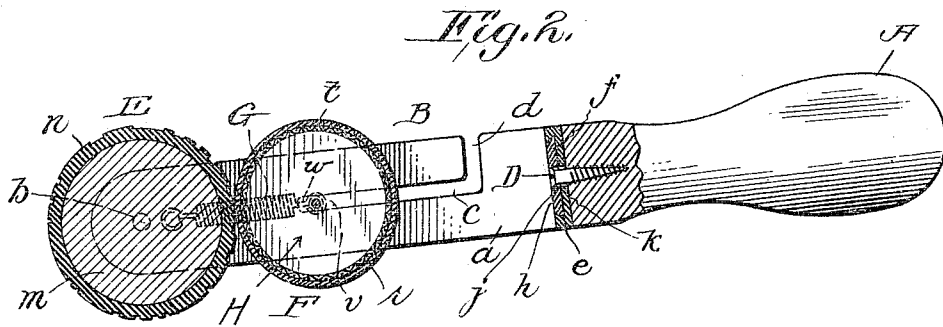
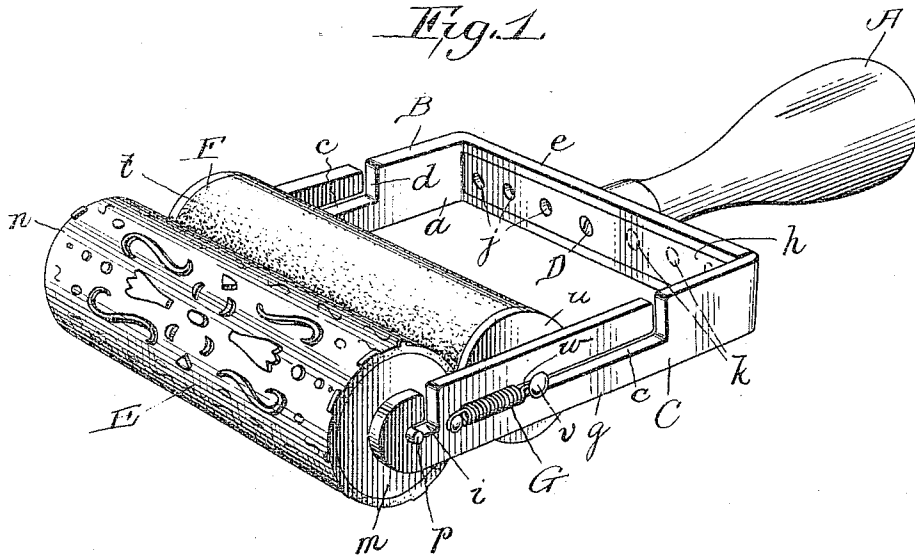


H. DU BRAU.
PAINTING APPARATUS.
APPLICATION FILED DEC. 16, 1909.

957,501.

Patented May 10, 1910.



Witnesses

Oliver K. Holmes
J. J. Sheehy Jr.

By

Inventor

Herman du Brau

James J. Sheehy
Attorney

UNITED STATES PATENT OFFICE.

HERMAN DU BRAU, OF BALTIMORE, MARYLAND.

PAINTING APPARATUS.

957,501.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HERMAN DU BRAU, citizen of the United States, residing at Baltimore, in the State of Maryland, have invented new and useful Improvements in Painting Apparatus, of which the following is a specification.

My present invention pertains to devices of the roller type for painting or printing continuous ornaments on walls, ceilings, cloth and other surfaces; and it consists in the peculiar and advantageous device hereinafter described and definitely claimed.

In the drawings accompanying and forming part hereof; Fig. 1 is a perspective view of the painting device constituting the best practical embodiment of my invention that I have devised. Fig. 2 is a longitudinal vertical section of the same. Fig. 3 is a section taken through the paint-carrying roller lengthwise thereof, and showing the means in said roller for keeping separate the bodies of different colored paints. Fig. 4 is a perspective view showing the paint-separating means as the same appears when removed from said roller.

Similar letters designate corresponding parts in all of the views of the drawings, referring to which:

A is the handle of the device, which is preferably of wood, and B and C are the sections of the frame, while D is the screw which serves to connect and adjustably fix the sections B and C with respect to each other and also serves to attach the handle to the frame. For the sake of cheapness the frame sections B and C are preferably cast of iron, and by comparison of Figs. 1 and 2, it will be understood that the section B comprises a side portion *a* having a circular opening *b* and also having a slot *c* that is open at its rear end *d*, and a rear arm *e* that reaches inward at a right angle from said side portion *a* and is provided in its forward side with a groove *f*, of dove-tail or equivalent form in cross-section. The section C comprises a side portion *g*, and an arm *h* that reaches inward at a right angle from said side portion near the rear end thereof. In the side portion *g* is a slot *c* similar to that of the side portion *a*, and also in said side portion *g* is a forward slot *i*,

of right-angle form, for a purpose herein-after set forth. The arm *h* of the section C is of dove-tail form in cross-section to snugly fit in the groove *f* of the arm *e* on section B, and is provided at intervals of its length with apertures *j*, designed to register with an aperture *k* in the arm *e* of section B. I would also have it understood that the arm *e* may, when deemed expedient, be provided with other apertures *k* at intermediate points of its length, this with a view of increasing the range of adjustment of the sections B and C. The said additional apertures *k* are shown by dotted lines in Fig. 1.

By virtue of the frame construction described, it will be understood that when the handle A is detached and the screw D removed, the sections B and C may be moved outward or inward, as occasion demands, and may then be adjustably fixed with respect to each other by replacing the screw D in registered apertures of the arms *e* and *h* and replacing the handle. It will also be understood that while the said adjustable capacity adapts the frame to carry rollers of different lengths, it does not detract from the stiffness and strength of the frame.

E is the painting or printing roller of the device, which is interposed between the frame arms *a* and *g*. I prefer to have the said roller E comprise a cylindrical body *m* of wood, and a covering *n* of soft and elastic rubber, secured on the body *m* and bearing a pattern that is preferably in relief, as illustrated. On the body *m* are trunnions *p*, and one of these is arranged in the opening *b* in the arm *a*, while the other is arranged in the slot *i* of the arm *g*. It will be here noted that by reason of one trunnion of the roller E being arranged in the slot *i*, the said roller may be expeditiously and easily removed from the frame and as readily replaced therein, and yet during the use of the device there is no liability of the roller E being displaced or disarranged, inasmuch as the paint-carrying roller F serves, by bearing forwardly against the roller E, to yieldingly retain the trunnion of the latter in the forward end of the slot *i*.

The paint-carrying roller F is preferably made up of a cylinder *r* of wire gauze or

other suitable foraminous material, metallic rings *s* soldered or otherwise fixed in the ends of the said cylinder *r*, and provided with interior threads, a covering *t*, of felt or suitable cloth or other suitable absorbent material surrounding the cylinder *r*, and heads *u* having threaded portions turned into connection with the rings *s*, and also having their perimeters arranged flush with that of the covering *t*, as shown. On the heads *u* are headed pins *v*, and these are designed to be placed in the frame slots *c* and to be engaged by hooks *w* at the rear ends of tractile springs *G*, which latter are connected to the side portions of the frame at points in advance of the slots *c*, and hence are adapted to hold the rollers *F* under yielding pressure against the roller *E*. It will also be understood here that when the hooks *w* of the springs are disengaged from the pins *v*, the roller *F* may be readily removed from the frame.

H is the means for separating and preventing intermingling of bodies of different colored paints in the roller *F*. The said means *H* comprises a stem *x*, a head *y* of thick leather or stiff felt or equivalent material fixed on the forward portion thereof, and a disk *z*, of similar material arranged on the stem and adjustable in the direction of the length thereof.

When it is desired to place bodies of paint of different colors in the roller *F*, the said roller is of course removed from the frame, and then one of the heads *u* is removed and a body of paint of one color is placed in one end portion of the cylinder *r*, say the left-hand end portion shown in Fig. 3. Then a second body of paint of a different color from that first named is placed in the cylinder *r* and at the opposite side of the head *y*, with reference to the first-named body of paint, and then the heads *y* and *z* are moved to the position shown. With this done, if it is desired to use three colors of paint at one time, the third body of paint is placed in the cylinder *r* back of the disk *z*, after which the cylinder is closed, and when placed in the frame and connected with the springs *G*, is ready for use.

The paints which I prefer to use are preferably oil paints of about the consistency of lard, and I would also say that in the use of the device it is well to impregnate the felt covering *t* of the roller *F* with turpentine, so as to better enable the said felt covering to receive the paint and apply the same to the perimeter of the roller *E*. I would also say that experience has demonstrated the fact that when more than one color of paint is used in the roller *F*, there will be no sharp line of demarcation between the colors on the surface that is being painted, but on the other hand at their meeting

point the colors will blend in such manner as to enhance the ornamentation of the surface.

It will be gathered from the foregoing that when the cylinder *r* of my novel device is properly supplied with paint, and the device is properly moved over the surface to be painted or printed, the design on the roller *E* will be repeated on the surface, and a considerable length of surface may be painted or printed quickly and with but little effort on the part of the user. It will also be gathered that the range of usefulness of the device is very wide, inasmuch as any pattern or device that it is desired to apply may be used on the perimeter of the roller *E*.

When it is desired to use but one color of paint in the roller *F*, the means *H* may be entirely removed from the roller *F*, while when it is desired to use two colors, the disk *z* is preferably arranged at the opposite side of one body of paint, with reference to the head *y*.

Having described my invention, what I claim and desire to secure by Letters-Patent, is:

1. In a device for the purpose described, the combination of frame sections comprising side portions in which are slots that are open at their rear ends, and arms reaching inward and disposed at right angles to the side portions; one of the said arms being of dove-tail form in cross-section, and the other having a groove of dove-tail form in cross-section receiving the first-named arm, and one arm having an aperture, and the other having apertures at intervals of its length adapted to be registered with the first-named aperture, a handle extending rearward at a right-angle from the rear arm, a screw removably arranged in registered apertures of the arms and detachably connecting the handle thereto, a roller removably mounted between the arms of the frame sections and adapted to apply paint to a surface to be decorated, a roller adapted to carry paint and supply the same to the first-named roller and having portions removably arranged in the slots in the arms of the frame sections, and tractile springs connected to the frame sections and detachably connected to the said portions of the paint-carrying roller and adapted to hold said roller under yielding pressure against the first-named roller.

2. In a device for the purpose described, the combination with a paint-carrying roller comprising a cylinder of wire gauze, means for closing the ends of the said cylinder, and a covering of absorbent material surrounding the cylinder; of a device for separating bodies of paint, arranged in the cylinder and comprising a stem, a disk fixed on one end of the stem and frictionally en-

gaging the inner side of the wire gauze cylinder, and a disk arranged and adjustable on the stem in the direction of the length thereof and also frictionally engaging the inner
5 side of the wire gauze cylinder; the stem being adapted to serve as a handle for the insertion and withdrawal of both disks.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HERMAN DU BRAU.

Witnesses:

JOHN W. BROSIUS,
W. H. DASHEN.