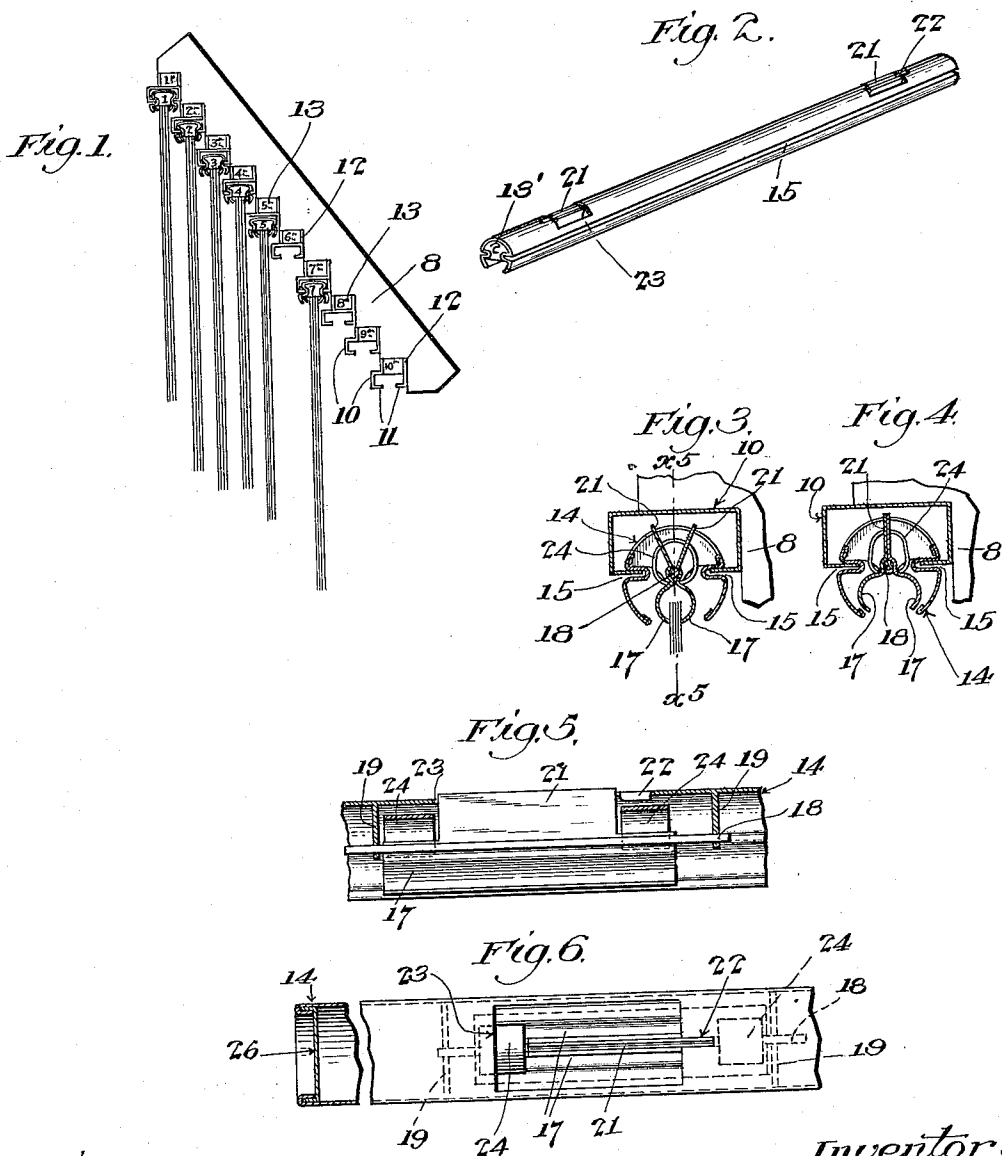


1,165,108.

Patented Dec. 21, 1915.



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UNITED STATES PATENT OFFICE.

ARTHUR H. MEMMLER, OF MONROVIA, CALIFORNIA.

DRAWING-FILE.

1,165,108.

Specification of Letters Patent.

Patented Dec. 21, 1915.

Original application filed May 8, 1911, Serial No. 625,873. Renewed November 14, 1914, Serial No. 872,235.

Divided and this application filed November 30, 1914. Serial No. 874,615.

To all whom it may concern:

Be it known that I, ARTHUR H. MEMMLER, a citizen of the United States, residing at Monrovia, in the county of Los Angeles and State of California, have invented a new and useful Drawing-File, of which the following is a specification.

This invention relates to a file for holding drawings, tracings or other sheet articles and relates more particularly to a spring clamp, therefore the subject matter of the present application is a division of my original application Serial No. 625,873, filed May 8, 1911, and allowed December 12, 1912.

One object of the invention is to provide a cylindrical holder open along its side to form a channel and having arranged interiorly a plurality of spring clamps which may be locked in, open position.

With this, and other objects in view, as will become more apparent as the description proceeds, the invention consists of certain novel features of construction, combination and arrangement of parts as will be hereinafter described, illustrated and claimed.

In the accompanying drawings: Figure 1 is an end elevation of the file; Fig. 2 is a perspective view of one of the holders; Fig. 3 is a cross sectional view through one of the holders showing the clamp in closed position and showing the holder supported by its sheath; Fig. 4 is a view similar to Fig. 3 showing the clamp in open position; Fig. 5 is a section on line x^5-x^5 of Fig. 3; Fig. 6 is a fragmentary plan view of one of the holders showing the clamping means.

The file includes a carrier frame 8 supported in any suitable manner and provided with a plurality of sheaths or guides 10, for supporting the drawing holders. The frame 8 is preferably made of sheet metal for the sake of lightness and cheapness and the sheaths or guides 10 may also be made of sheet metal in channel shape, said guides having inwardly extending flanges 11 at their lower edges to receive and support the drawing holders. Card holders 12 may be formed on the sheaths or guides 10 to receive cards or number tags 13.

The drawing holders 14 may be formed of sheet metal bent in cylindrical shape, open at the bottom to form a channel, the sides of the holder being formed with grooves 15 to receive and engage the in-

wardly extending flanges 11 of the guides 10. Clamping devices are provided in the said holders for engaging the drawing, said clamping devices consisting, for example, as shown in Figs. 3 to 6, of two jaw members 17 hinged together on a shaft 18 extending longitudinally within the holder, said shaft being slidably mounted in bearings 19 within the holder. Said jaw members 17 extend downwardly from shaft 18 and are curved to extend around and embrace the edges of the drawing, and said jaws are provided with handle portions or arms 21 extending upwardly, so as to be engageable within a slot 22 in the top of the cylindrical holder, the holder top being cut away, as shown at 23, in advance of this slot to enable the fingers to be inserted at each side of the upper arms of the clamps, so as to grip the said arms for opening the clamps. A bow-spring 24 embracing the clamp jaws tends to press the said jaws together to grip the paper. The ends of the tube or cylindrical holder 14 may be closed by disks 26, fastened, for example, by seaming the wall of the tube over the disk. These disks may be marked or numbered on the outside, in correspondence with the marks on members 13 in the sheaths or guides 10, as indicated at 13'.

The file is used as follows: Assuming that one of the holders 14 is removed from the carrier frame 8, the drawings are inserted in the holder by pressing on the handle portions 21 of the jaws 17, so as to separate the jaws, and then sliding said handle portions into the slots 22 in the holder, the walls of said slots then holding said handle portions close together and holding the jaws apart. One or more drawings, according to the capacity of the clamps and the requirements of the user are then inserted within the opening at the bottom of the cylindrical-shaped holder 14 and within the open jaws 17 and the handle portions of the jaws are then drawn out of the slots 22 in the holders, allowing the springs 24 to close the jaws forcibly on the drawings and grip the drawings in the holder. The holder may then be slid endwise into one of the sheaths or guides 10 on the carrier frames 8, the card 13 in the corresponding card holder 12 and the numbered tube end, indicating the classification of the drawings in that holder. If it is desired to remove the drawings, the

corresponding holder will be slid out from the guide 10 thereof and the set or bunch of drawings in the said holder may then be rolled up on the said cylindrical holder 5 forming a base for a convenient package if same is to be carried about. Any one or more of the drawings in said set can be removed by loosening one or both of the clamps. Thus, if it is desired to remove any 10 one of the drawings while retaining the others in the holders, one of the clamps will be opened and slid endwise to hold it open and the other clamp left in closed position so as to retain the bunch of drawings in 15 place. The drawing desired is then pulled down on the side toward the opened clamp and said clamp is then closed and the other clamp opened and the drawing then withdrawn bodily from the set, the second clamp 20 being then closed leaving the set in position in the holder.

What I claim is:

1. In a file for drawings, a drawing holder formed as a channel member open along the 25 bottom, and clamps within the channel formed with jaws hinged together and extending downward from their hinge connections, and provided with handle means extending upwardly from the hinge connection 30 of the jaws, and spring means tending to press the jaws together, the top of the channel member being cut away to expose said handle means.

2. In a file for drawings, a drawing 35 holder formed as a channel member open along the bottom, and clamps within the channel formed with jaws hinged together and extending downward from their hinge connection, and provided with handle means

extending upwardly from the hinge connection 40 of the jaws, and spring means tending to press the jaws together, the top of the channel member being cut away to expose said handle means, and provided with slots 45 for engaging said handle means, the jaws being slidably mounted on the channel member to move their handle means into and out of said slots.

3. In a file for drawings, a drawing holder provided with clamps longitudinally slidable 50 therein, and means on the holder engaging with the clamps for locking the clamps in open position when they are moved endwise in one direction on the holder, and for releasing the clamps when 55 they are moved in the opposite direction.

4. In a file for drawings, a drawing holder having a slot, a clamp shiftably 60 mounted to move into engagement with the slot to hold the clamp in open position, and means tending to close the clamp when said clamp is disengaged from the slot.

5. In a file for drawings, a drawing holder consisting of a channel member provided with clamping means inside the channel 65 for detachably securing the drawings to the holder with the edges of the drawings extending within the holder, said holder being cylindrical to adapt it for holding the drawings thereon. 70

In testimony whereof, I have hereunto set my hand at Los Angeles, California, this 14th day of November, 1914.

ARTHUR H. MEMMLER.

In presence of—

LORA M. BOWERS,
LORRAINE E. DURROW.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."