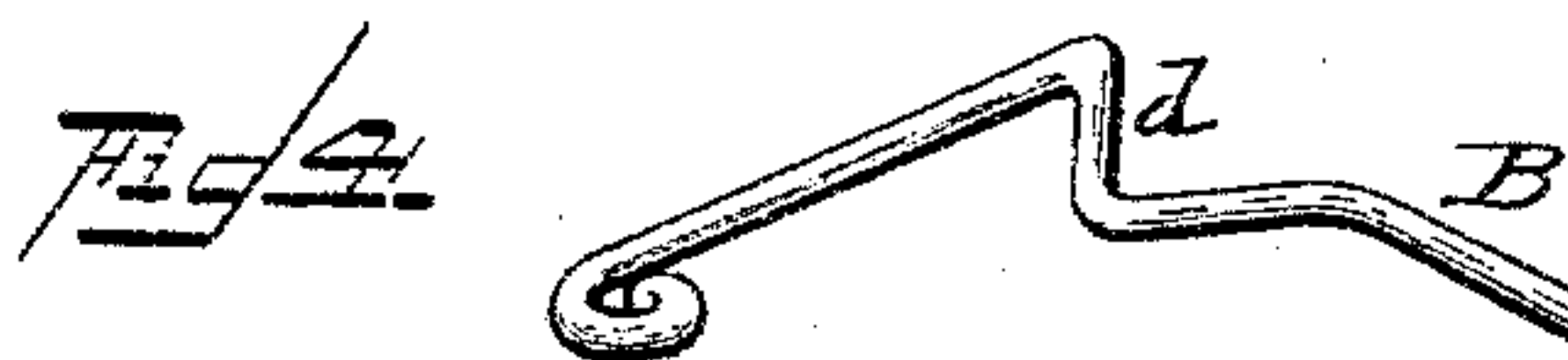
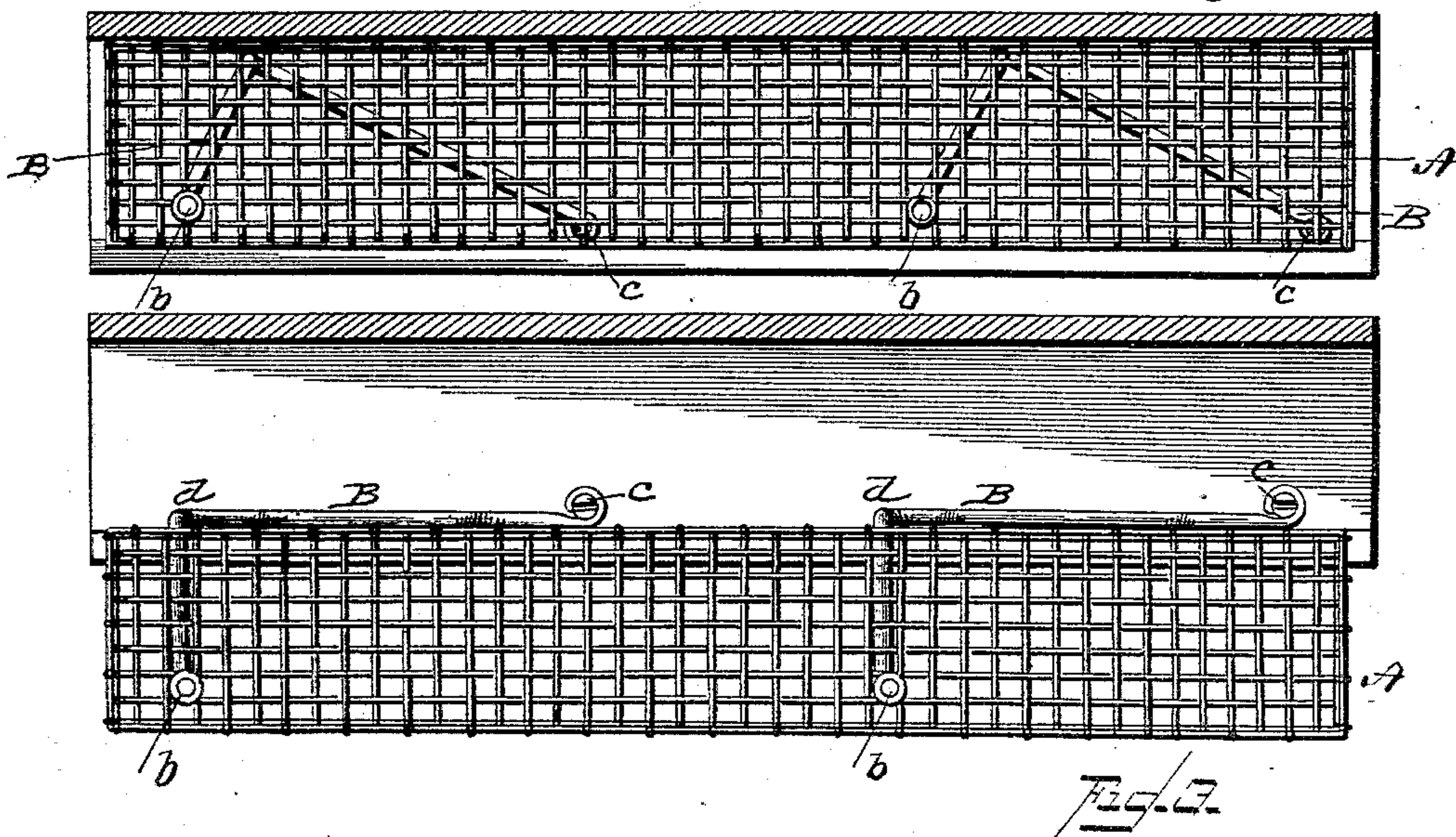
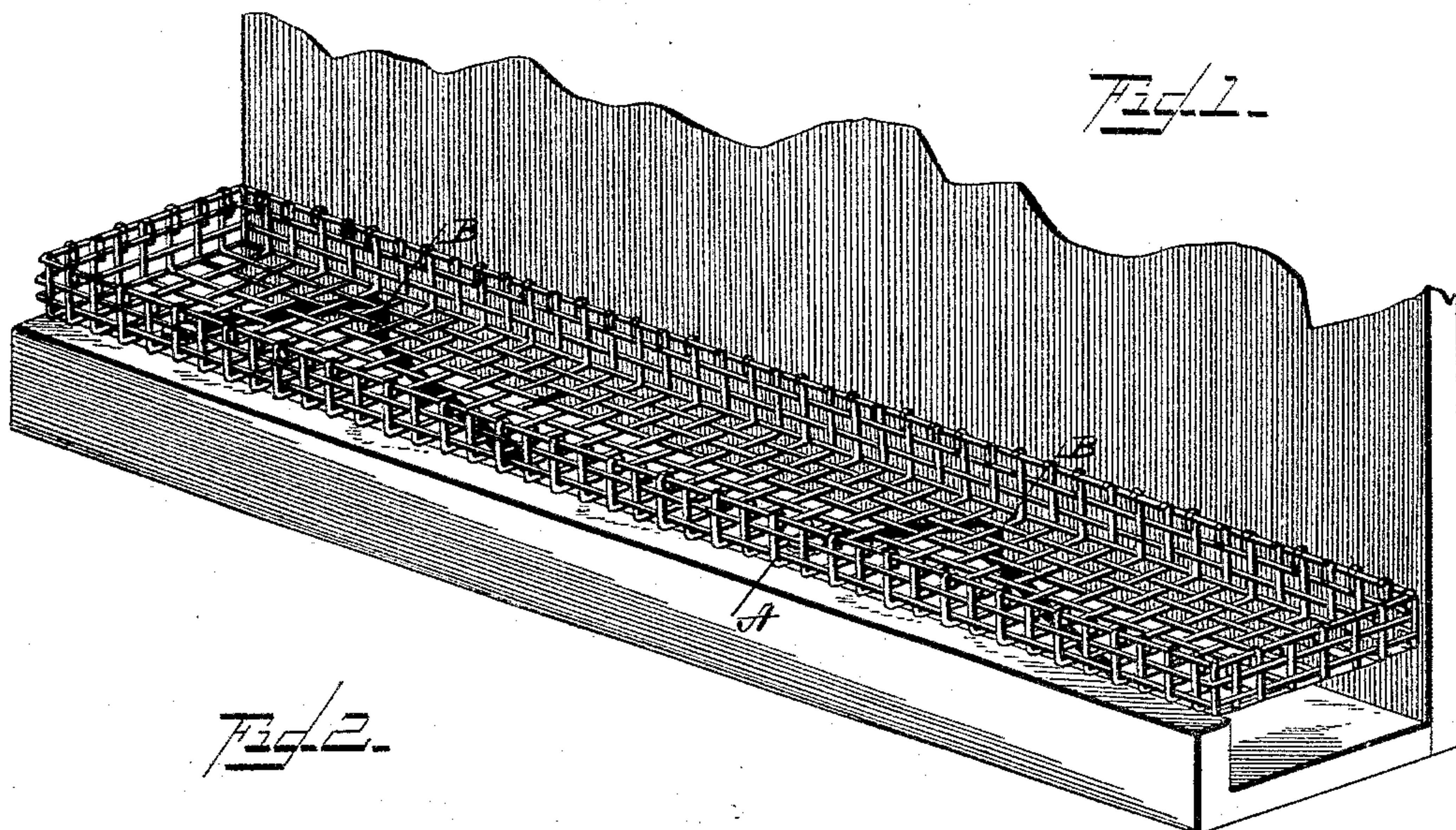


(No Model.)

A. J. DOUGLASS.
CRAYON RACK FOR BLACKBOARDS.

No. 412,075.

Patented Oct. 1, 1889.



WITNESSES
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INVENTOR

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By *[Signature]*
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UNITED STATES PATENT OFFICE.

ADELBERT J. DOUGLASS, OF ILION, NEW YORK.

CRAYON-RACK FOR BLACKBOARDS.

SPECIFICATION forming part of Letters Patent No. 412,075, dated October 1, 1889.

Application filed June 4, 1889. Serial No. 313,032. (No model.)

To all whom it may concern:

Be it known that I, ADELBERT J. DOUGLASS, a citizen of the United States of America, residing at Ilion, in the county of Herkimer and State of New York, have invented certain new and useful Improvements in Crayon-Racks for Blackboards, of which the following is a specification, reference being had therein to the accompanying drawings.

My improvement in crayon-racks for blackboards is designed to admit of the tray being readily uncovered for cleaning out the dust, dropping out discarded pieces of crayons, or for other purpose, without necessitating the removal and replacing of the erasers and crayons lying therein and of tipping any remaining pieces out onto the floor; and it consists in the peculiar construction, combination, and arrangement of the parts, substantially as herein described and more fully shown.

In the accompanying drawings, Figure 1 is a view in perspective of my crayon-rack. Figs. 2 and 3 are plan views, the latter showing the crayon-rack projected out from the tray; and Fig. 4 is a detail view of one of the swinging arms.

To effect the purposes set forth, I construct my crayon-rack A of wire cloth or netting, turning its four edges *a* upward at right or slightly obtuse angles and folding the free borders or wire ends downward to strengthen the rims and avoid objectionable roughness. Crayon-rack A is pivoted to the swinging arms B B, two or more of which are placed under each rack for effective support and operation. These swinging arms, which are alike in construction, are metallic bars bent or molded at right or obtuse angles to form unequal projections. The ends of these shorter projections are pivoted to the rack A by means of studs or rivets *b b* passing upward through meshes in the bottom of the rack and clinched upon burrs or washers, while the ends of the longer projections are

bent or perforated to form eyes for reception of securing-screws *c*, by which the arms are attached to the dust-tray. Near this point of attachment to the tray swinging arms B B project upward at an angle, thence horizontally to near the main angle of the arms, where a downward-bent loop or projection forms a short leg or standard *d*, which, when the crayon-rack is in place, rests upon the bottom of the tray, and thus in connection with the outer wall of dust-tray gives ample support to the rack. The swinging arms B B are thus pivoted at one end to the crayon-rack and at the other end to the dust-tray.

To uncover the dust-tray for removal of its litter contents or to drop therein discarded crumbs of chalk, &c., the front of the rack must be lifted slightly to release it, which movement raises the rack and its posterior supports, and then a forward movement uncovers the tray.

Thus constructed, the rack is held firmly in place, is readily adjusted, and is inexpensive, durable, and complete.

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

1. The combination of the angular swinging arms having eyes at either end thereof, and elbows, the studs and rivets, and the tray and rack to which swinging arms are secured, substantially as shown, and for the purpose described.

2. The combination of the tray, the rack, and the swinging arms provided with elbows, substantially as shown, and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

ADELBERT J. DOUGLASS.

Witnesses:

A. R. MORGAN,

FRED H. BENNETT.