(No Model.)

J. G. McBRIDE.

PAPER AND TWINE HOLDER.

No. 381,155. Patented Apr. 17, 1888.

Fig. 1.

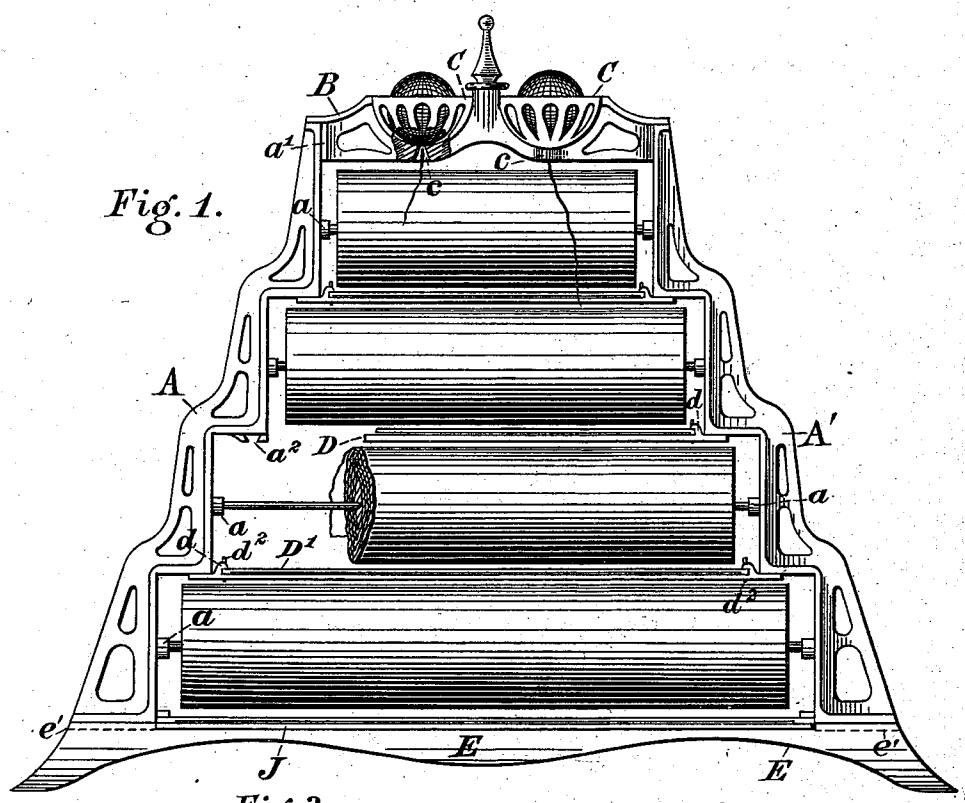


Fig. 3.

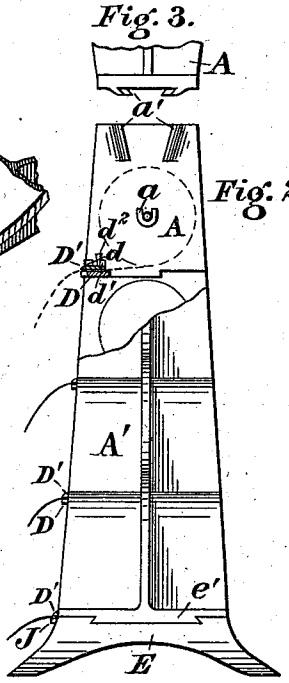


Fig. 6.

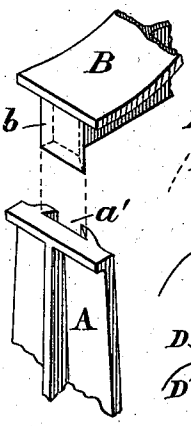


Fig. 2.

Fig. 5.

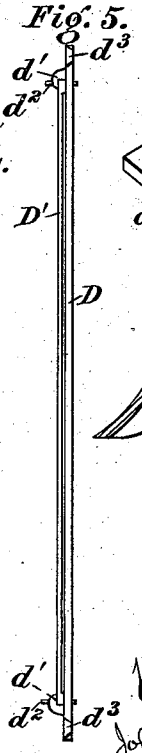
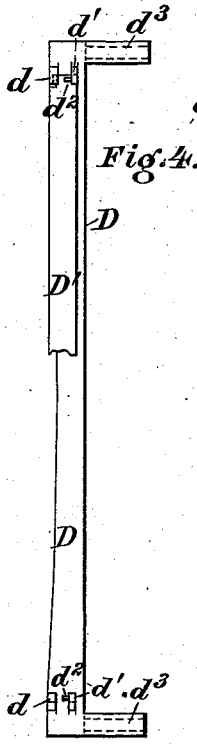


Fig. 4.



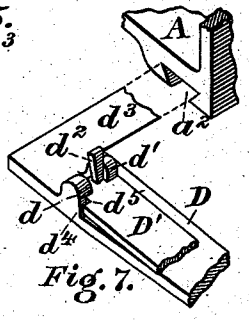


Fig. 7.

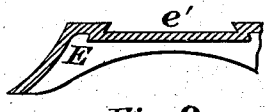


Fig. 8.

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UNITED STATES PATENT OFFICE.

JOHN G. McBRIDE, OF SAN FRANCISCO, CALIFORNIA.

PAPER AND TWINE HOLDER.

SPECIFICATION forming part of Letters Patent No. 381,155, dated April 17, 1888.

Application filed August 9, 1887. Serial No. 246,540. (No model.)

To all whom it may concern:

Be it known that I, JOHN G. McBRIDE, a citizen of the United States, residing in the city and county of San Francisco, and State of California, have invented a new and useful Paper and Twine Holder; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to a combined paper and twine holder.

The objects of my invention are, first, to provide a simple, durable, and cheap device for supporting in a convenient position rolls of paper of various lengths; second, to so arrange it that portions of paper may be readily separated from the rolls neatly and expeditiously; to devise the apparatus in such a manner that it may also be adapted to hold conveniently for use balls of twine, and that the whole may present an ornamental and attractive appearance. I attain these objects by means of the device illustrated in the accompanying drawings, in which—

Figure 1 is an elevation with portions broken; Fig. 2, an end view with portion broken; Fig. 3, a partial plan of side, showing dovetail slot *a'*; Fig. 4, a detail of tearing-bars; Fig. 5, a detail of tearing-bars; Fig. 6, a perspective view of top and side connection; Fig. 7, a perspective view of connection of tearing-bar and frame; and Fig. 8, a section of dovetail of base, showing dovetail.

A A' are side frames formed in the shape of a series of inverted steps.

a a are U-shaped bearings for supporting the spindles of the rolls.

a' a' are dovetailed slots at the top of A A'.

a^2 a^2 are dovetailed slots in which the dovetail pieces on D fit; B, a connecting-bar for holding the sides at a suitable distance apart and giving the structure strength and rigidity; *b*, dovetail piece for securing B to side pieces; C, cup-shaped expansions of the connecting-bar B for holding balls of twine; *c c*, small holes through which the twine passes; D D', upper and lower bars, respectively, of the tearing device; *d d'*, lugs upon D for holding D'; d^2, wedge for securing D' in position; d^3, dovetail projection for attaching D to frame; d^4, stop; d^5, notch at the corner of D'.

E is the base, which also acts as the lower plate in the tearing device for lower roll.

e is a dovetail projection on A A'; *e' e'*, dovetail slots in E; J, a projection or lip on E.

As simplicity of construction is one of the principal features of this device, but little explanation will be required to make its construction and operation clear.

The rolls of paper being suspended by their spindles in the U-shaped bearings, as shown, the loose end of the paper is passed between the upper and lower bars of the tearing device. The edges of D and D' being sharp, they act as cutting-edges against which the paper can be easily and evenly torn, leaving no unsightly ragged edges. The front edge of the lower bars of all the tearing devices are slightly curved inward, thereby leaving a portion of the paper always exposed, so that it is convenient to draw out after each piece has been separated from the roll.

In the construction of this device, with the exception of the wedges used to secure the upper tearing-bars, no separate connecting devices—such as bolts, screws, rivets, &c.—are used to secure the parts together, the shape of the parts alone sufficing for this purpose, and as the pieces which constitute the apparatus are preferably made by casting this mode of construction reduces the cost to a minimum, as they leave the sand practically finished ready to be assembled. The dovetail projection *e e* fits into the dovetail slot or recess *e' e'*, thereby holding the sides A A' in an upright position upon the base E. Dovetail projections *b* upon both ends of the connecting-bar B fit into the dovetail slot or recess *a'*, thereby securing the upper end of the sides A A'. Any tendency of the sides to spread apart by the sliding of the lower ends out of their dovetail slot is prevented by the lower tearing-bars, the dovetail projections d^3 d^3 of which fit into the dovetail recess a^2 a^2 upon the under side of the steps which form the sides. The upper tearing-bar is held in place by the projecting lip of the lugs *d d'* upon the lower bar, which is forced from behind. It is stopped in a correct position by the stop d^4, the edge projecting sufficiently so that the upper and lower bars, D D', are approximately even at the ends. The wedges d^2 d^2 serve to force the upper bar forward and so secure the lower bar rigidly in place.

The projecting lip J on the base E takes the

place of the lower tearing-bar of the lowermost roll, the upper tearing-bar in this case being attached to the base E in the same manner as the other upper tearing-bars are secured to their lower tearing-bars.

The cup-shaped expansions of the bar B serve to hold balls of twine, while the small hole through which the end passes keeps the loose end in a convenient position to be reached when required, and prevents the ball from unwinding unnecessarily, and so becoming entangled.

It is evident that this device may be made for carrying any number of rolls of paper, from one upward.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a combined paper and twine holder, the combination of roll-supporting frames formed in a series of steps provided with bearings *a a*, a connecting-bar having cup-shaped expansions, each provided with a small hole, a base having a projecting lip for tearing the paper evenly from the roll, and the tearing-bars, substantially as described.

2. In a combined paper and twine holder, the combination of the sides A A′, having bearings for supporting-spindles, and the lower end of each of which is supplied with dovetail projections *e*, and the upper end of each of which is provided with a dovetail groove or recess, *a′*, and having dovetail grooves or recesses a^2, the base E, having a lip, J, and having dovetail grooves or recesses *e e*, the connecting-bar B, having cup-shaped expansions C C, each of which is provided with a small hole, *c*, in its lower part, and having its end provided with a dovetail projection, *b*, and the tearing-bar D, provided with lugs *d d′* and stop d^4, the front edge of which is curved, and the upper tearing-bar, D′, which is provided with holes d^5 d^5, and the wedges K, substantially as described.

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