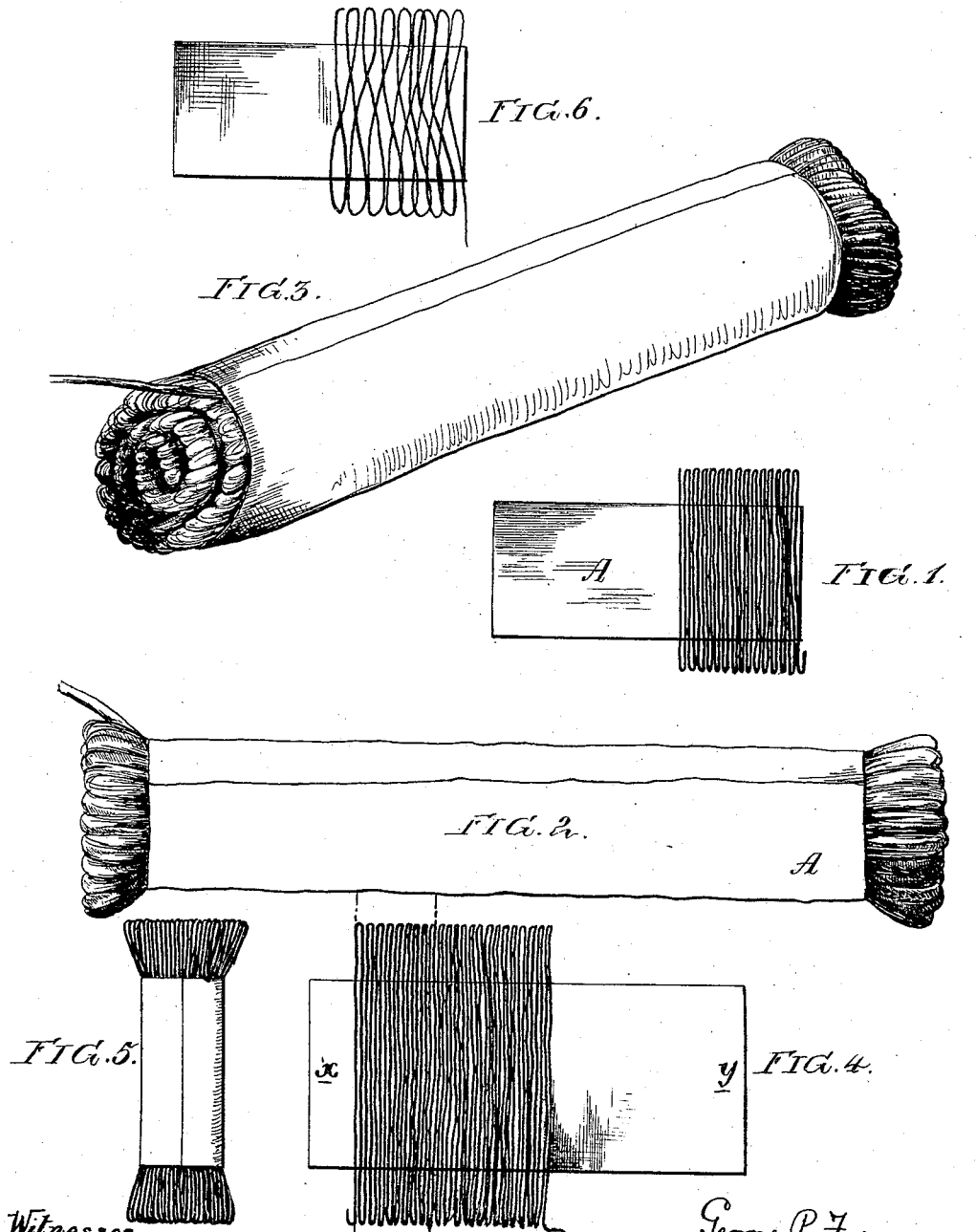


G. P. FARMER.
Putting up Yarn.

No. 164,284.

Patented June 8, 1875.



Witnesses,
Harry Smith
Hubert Howson

George P. Farmer
by his Attorneys,
Howson and Son

UNITED STATES PATENT OFFICE.

GEORGE P. FARMER, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN PUTTING UP YARN.

Specification forming part of Letters Patent No. **164,284**, dated June 8, 1875; application filed May 7, 1875.

To all whom it may concern:

Be it known that I, GEORGE P. FARMER, of Brooklyn, New York, have invented an Improvement in Putting up Yarn, Worsted, and Similar Articles, of which the following is a specification:

The object of my invention is to so put up yarn, thread, cord, and similar articles in bundles that any desired quantity can be readily withdrawn without disturbing the remainder of the bundle; and this object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawing.

Heretofore Berlin wool, knitting-wool, and like articles have been sold in hanks, and it has been usual for the purchaser to wind it in balls or on bobbins before using it. In order to avoid the necessity of this winding, I discard the usual hanks, and put up the article for sale as shown in the accompanying drawing.

The diagram, Figure 1, illustrates my mode of putting up light and delicate yarns, such as Berlin wools. On a strip of paper, A, I lay the yarn in folds, as shown, care being taken that the ends of the folds do not overlap each other, and then place on the top of the folds another strip of paper, or part of the first strip, so that all the folds are contained between two papers, the ends of the folds being exposed. I then roll the whole up into a coil, as shown in Fig. 2, or in the perspective view, Fig. 3, or fold the same into a suitable packet, and fasten the edges of the paper by pasting them to the body of the wrapper, or otherwise.

The yarn or cord may be withdrawn from the bundle, fold after fold, and coil after coil, as required, the withdrawal of one fold or coil having no tendency to disturb or cause an entanglement of the others, the folds and coils being maintained by the wrapper in such a relative position as to obviate this.

Berlin wool, or other like articles of different shades, colors, or thicknesses, may be con-

tained in one package for the convenience of workers of ornamental articles, the different colors or sizes in such case being separated from each other by inserting a strip of paper between each.

In putting up the lighter and more delicate class of yarns, the wrapper should be coiled comparatively loosely, as shown in Fig. 3; but in putting up the stronger yarns, threads, or cords, or in cases where but a small quantity is contained in a package, the folds, after being laid as shown in Fig. 4, may be compressed into a space, as shown by dotted lines, the portion *x* of the wrapper folded over the same, and the portion *y* then wound round the mass, and its end secured in any suitable manner. Owing to the fact that the ends of the folds do not overlap each other, there is no entanglement of the threads, even when packed in this way.

The folds may, if desired, be crossed in the center, as shown in Fig. 6.

If desired, gum bands may be used for contracting the bundle, as the yarn or thread is withdrawn.

I claim as my invention—

1. The mode herein described of putting up cords, yarns, &c.—that is, by inclosing one or more continuous pieces in a wrapper, and arranging each piece in a series of folds, whereby the cord will unlap without entangling when any part is drawn from the end of the wrapper, as set forth.

2. As a new article of commerce, a bundle or package of yarn, thread, cord, or other like articles coiled and wrapped in the manner described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE P. FARMER.

Witnesses:

HUBERT HOWSON,
HARRY SMITH.