

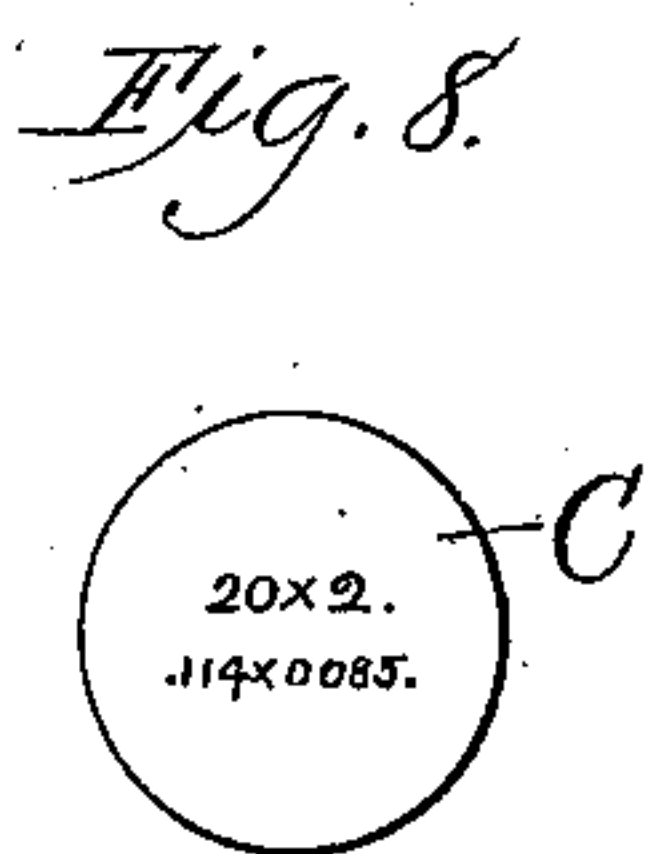
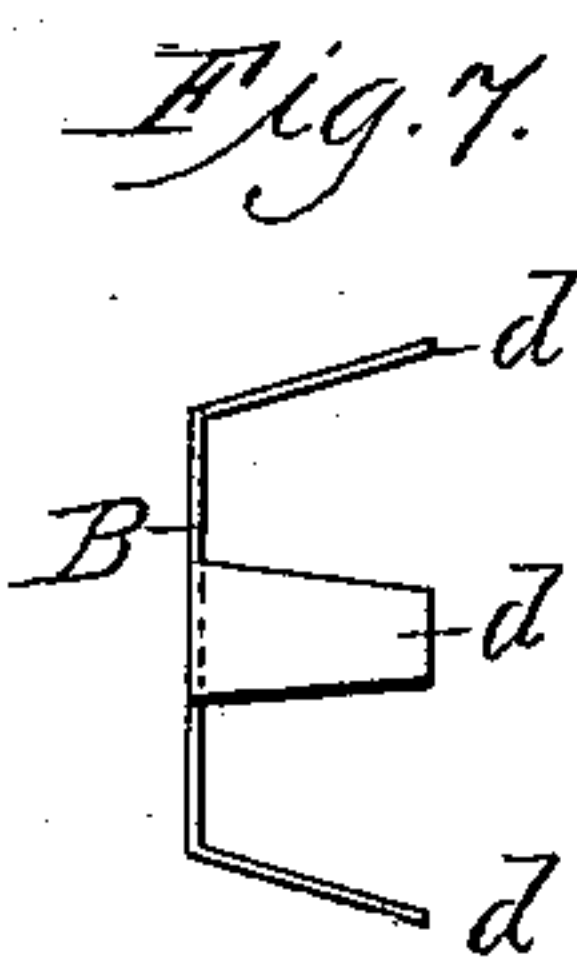
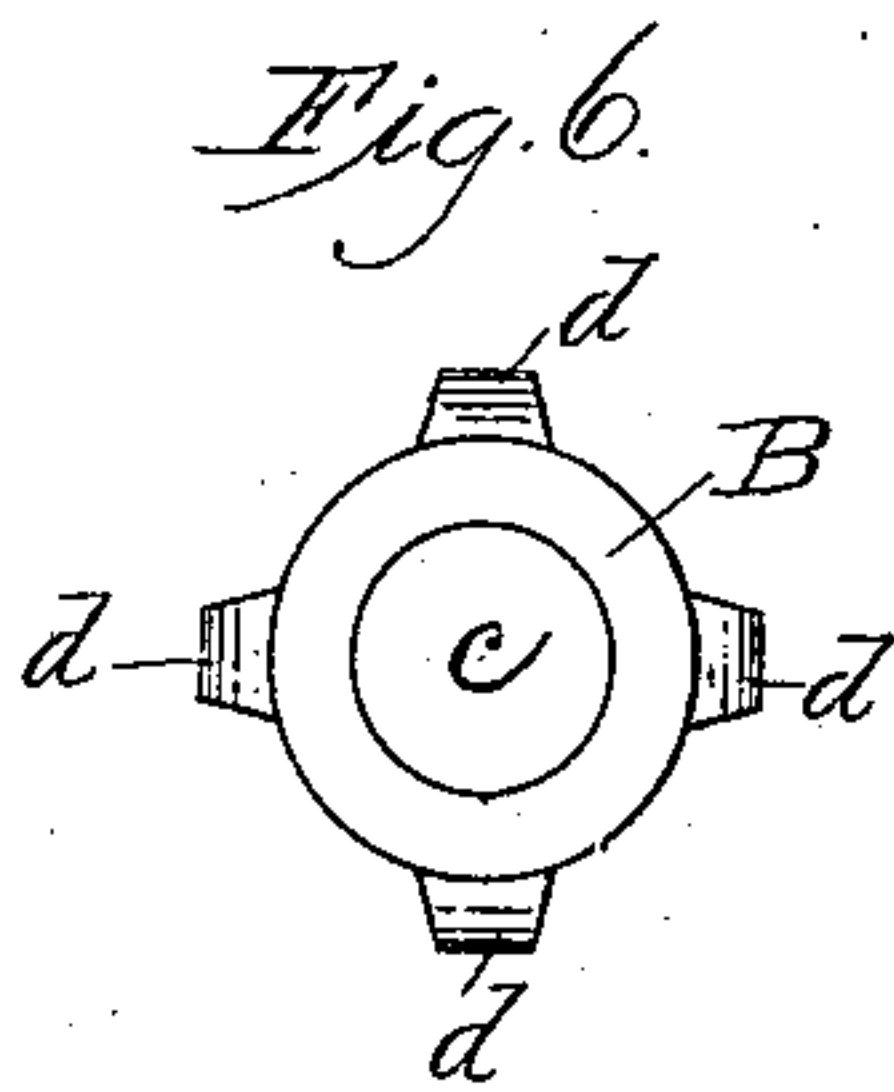
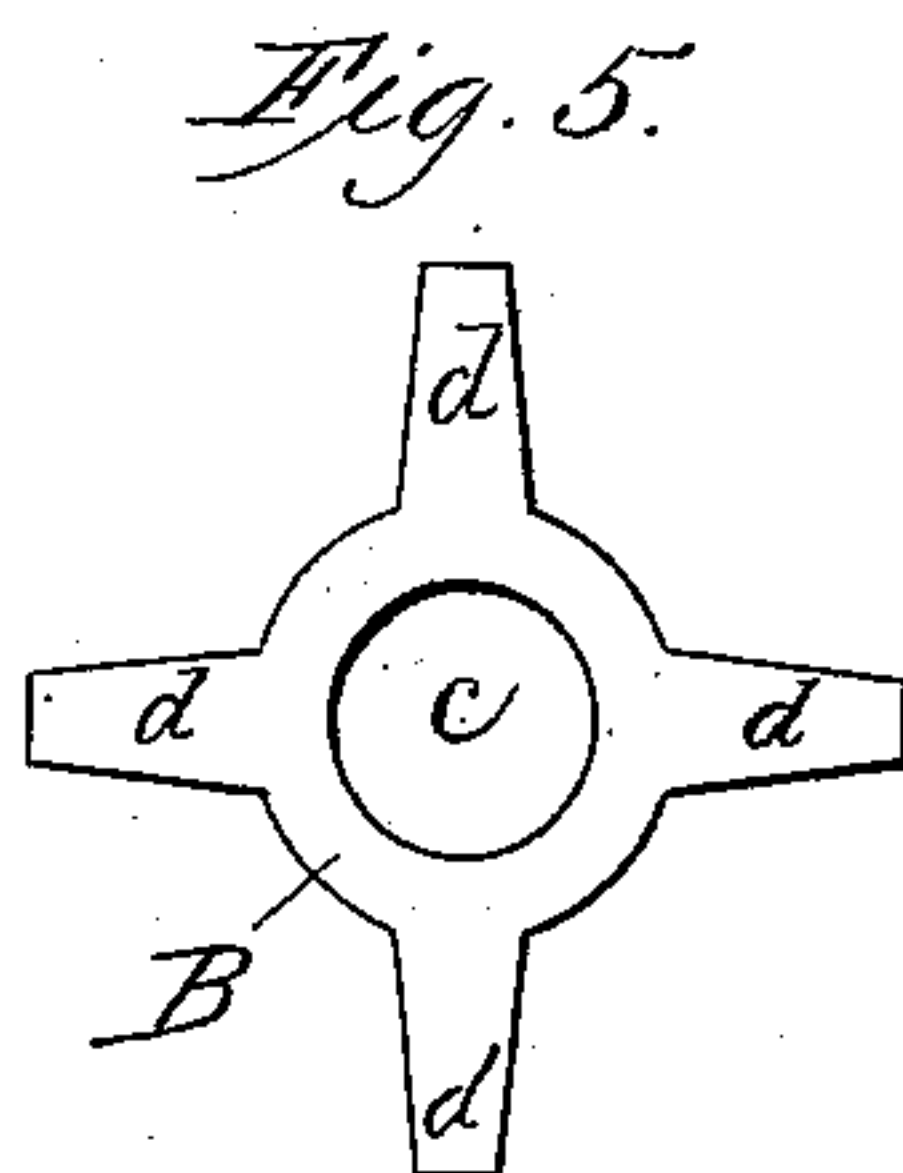
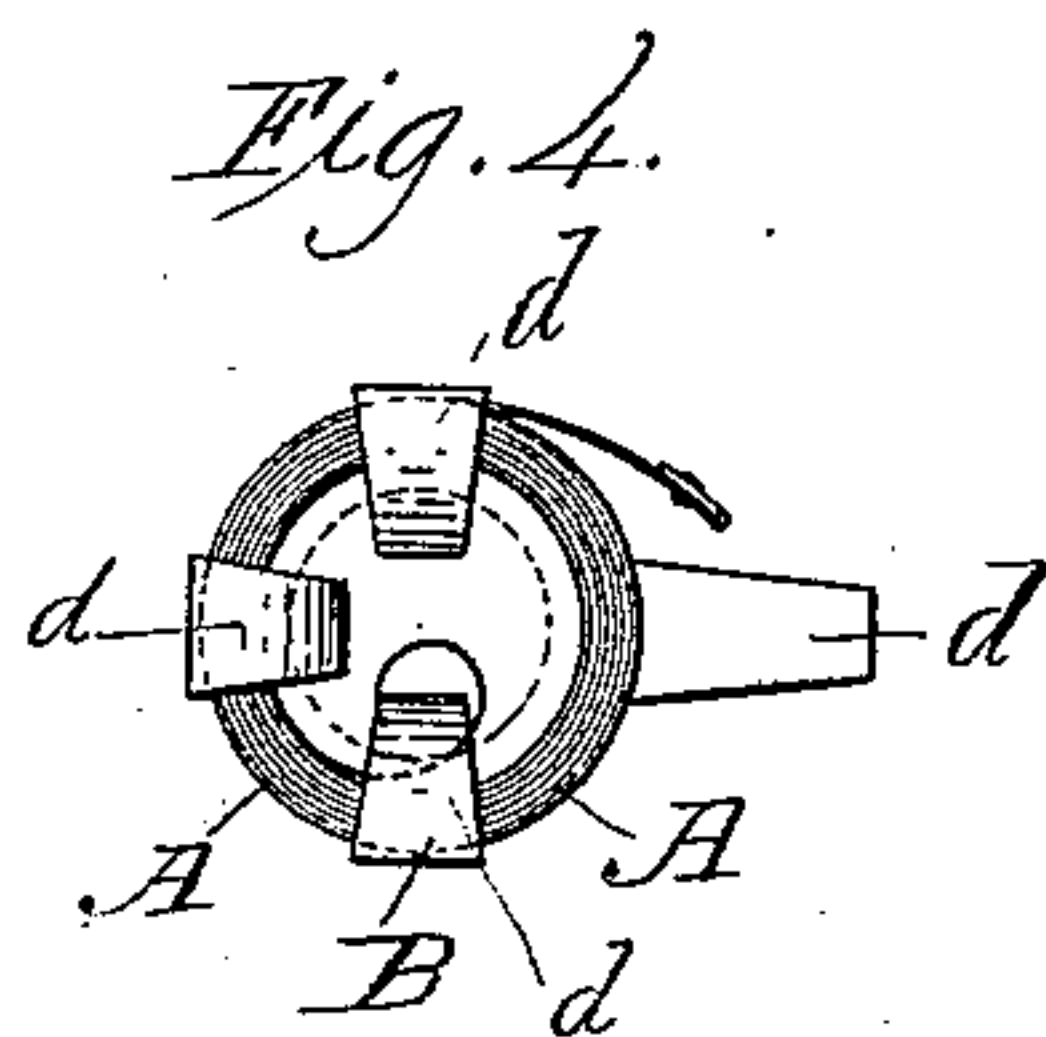
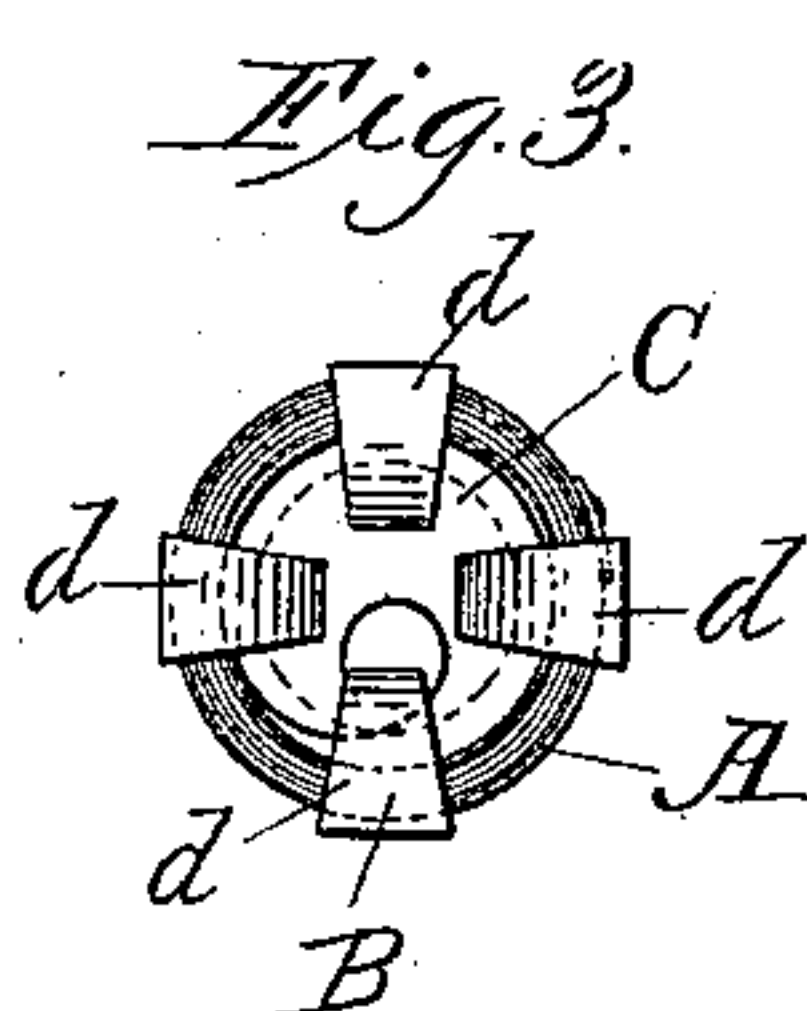
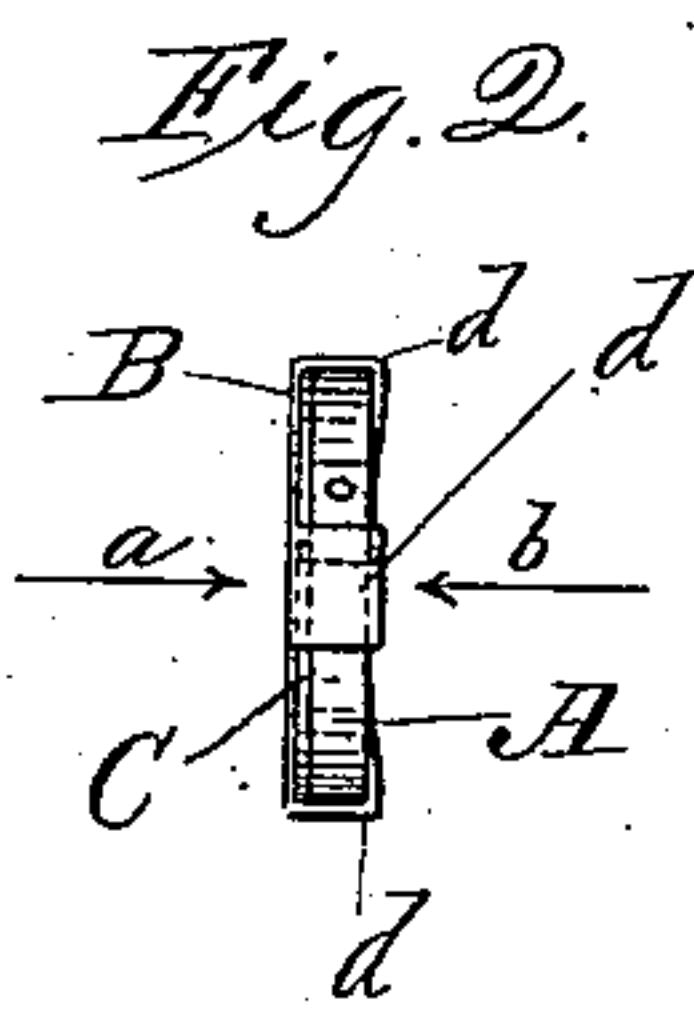
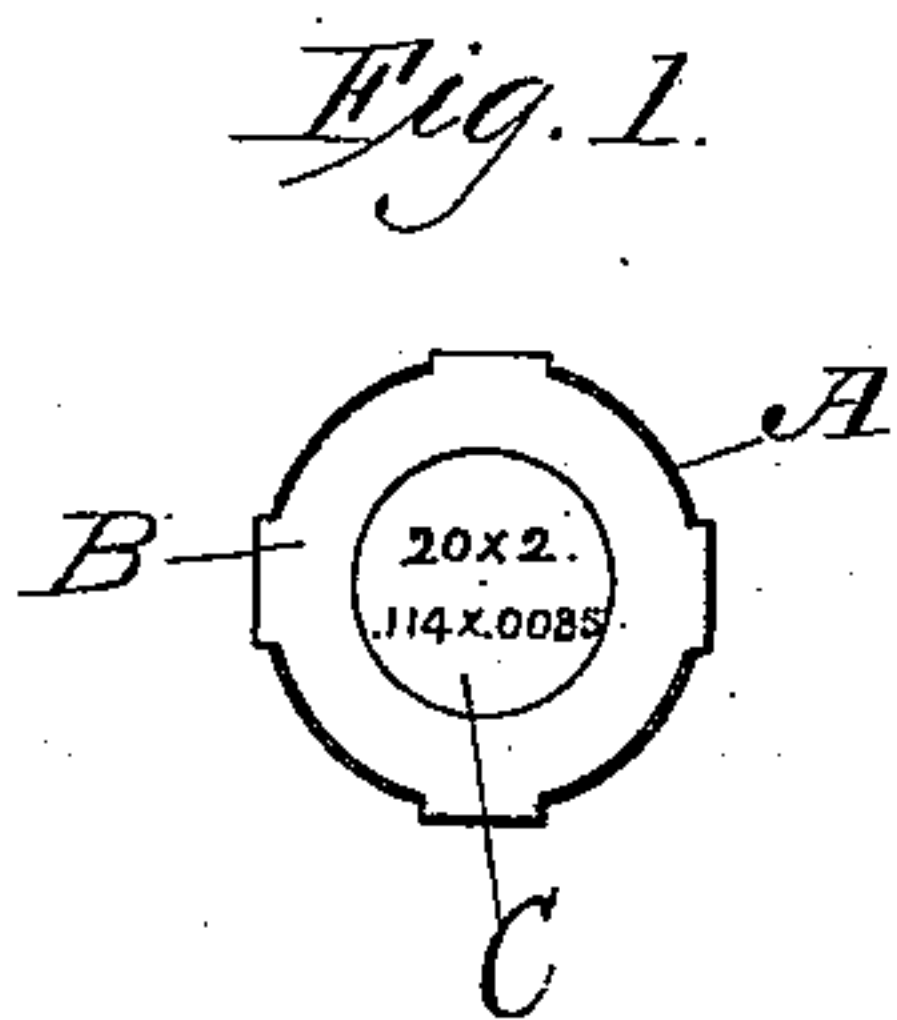
(No Model.)

C. H. MORGAN, E. J. WATSON & H. W. WILLSON.

WATCH SPRING HOLDER.

No. 308,320.

Patented Nov. 18, 1884.



Witnesses;
Harry A. Willard.
Albert A. Barker.

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UNITED STATES PATENT OFFICE.

CHARLES H. MORGAN, EDWIN J. WATSON, AND HORACE W. WILLSON, OF
WORCESTER, MASSACHUSETTS, ASSIGNORS TO THE WASHBURN & MOEN
MANUFACTURING COMPANY, OF SAME PLACE.

WATCH-SPRING HOLDER.

SPECIFICATION forming part of Letters Patent No. 308,320, dated November 18, 1884.

Application filed February 1, 1884. (No model.)

To all whom it may concern:

Be it known that we, CHARLES H. MORGAN,
EDWIN J. WATSON, and HORACE W. WILLSON,
all of Worcester, in the county of Worcester
and State of Massachusetts, have invented a
new and useful Combined Shipping-Tag and
Holder for Watch and Similar Springs; and
we do hereby declare that the following is a
full, clear, and exact description of the same,
reference being had to the accompanying draw-
ings, forming a part of this specification, and
in which—

Figure 1 represents a front side view, Fig.
2 an edge view, and Fig. 3 a back side view,
of a watch-spring coiled up, with our afore-
said holder and shipping-tag applied thereto,
as hereinafter more fully described, Fig. 1 be-
ing a view looking in the direction indicated
by arrow *a*; Figs. 2 and 3 looking in the direc-
tion of arrow *b*, same figure. Fig. 4 represents
a similar view to that shown in Fig. 3, with
the outer end of the spring shown disengaged
from the holder to admit of gaging said spring,
as hereinafter described; and Figs. 5, 6, 7, and
8 represent different detailed views of our de-
vice, which will also be hereinafter more fully
described.

Prior to our invention watch-springs have
ordinarily been put up for the market by
simply surrounding the coiled spring with a
wire having its ends twisted together. This
mode of fastening is insecure, and has other
obvious disadvantages. It is necessary that
the spring should be firmly held from uncoil-
ing, to which it has a strong tendency, being
coiled, for sake of compactness, very tightly.
It is further desirable that the holder be so
constructed as to permit the ready removal of
the spring therefrom and its replacement
when desired, and that convenient means be
provided for holding a tag or label to show the
size, length, &c., of the spring inclosed.

The present invention is designed to accom-
plish these objects in a simple and effectual
manner.

The holder consists of a circular plate hav-
ing about the same diameter as the spring
when coiled, and provided with a suitable
number of arms projecting beyond the pe-

riphery of the plate and in one piece there-
with. The label or tag is a circular disk of
substantially the diameter of said plate, and
is held under the same, the interior part of
the plate being cut away to expose the marks
on the disk. The spring, tightly coiled, is
placed in the holder upon the disk or label,
and the holding-arms (which are of flexible
metal) are bent over and around it, securely
retaining it within the holder, but at the same
time permitting it to be readily removed there-
from whenever desired. When tags or labels
are simply tied to each spring by a cord, they
take up space, are liable to become entangled
together, and to be detached and lost. By
this improvement the disk bearing the desig-
nating-marks of the spring is securely held in
place in the holder, of which it constitutes an
important part.

The holder may be reused many times.

To enable those skilled in the art to which
our invention belongs to make and use the
same, we will proceed to describe it more in
detail.

In the drawings, A represents an ordinary
coiled watch-spring; B. our metal holder, and
C the shipping-tag, which is placed between
the spring and its holder. The holder B is
first stamped or otherwise cut out, in the form
shown in Fig. 5 of the drawings, from any thin
flexible metal, and at the same time or by a
separate operation the firm or corporation
name or any other marks or designs may be
stamped or otherwise designated upon the face
of the holder around the circular opening *c*,
formed in the center of the same, as is shown
in Figs. 1 and 6.

After the holder has been cut out, as before
described, and shown in Fig. 5, it is then
pressed or stamped into the shape shown in
Figs. 6 and 7, ready to be applied to the coiled
spring, by bending the ends *d*, so as to encircle
and hold the coil firmly in position, as shown
in Figs. 1, 2, and 3.

Previous to placing the coiled spring in the
holder shown in Figs. 6 and 7 the tag C is
placed therein against the inner face of said
holder, and is there held by the spring when
placed over it and fastened in position, as be-

fore described. The circular tag C serves two purposes—one of assisting to hold the spring in its proper position when fastened in the holder B, and the other to admit of each spring being labeled preparatory to shipment by the firm or corporation manufacturing and selling the same. Upon the center of the tag, within the radius of the circular opening *c*, formed in the holder, may be printed, stamped, or otherwise designated, the width, length, weight, &c., of the spring, if desired, or any other marks or designs which would be convenient to be used upon the same, or which the manufacturer might desire to have placed there, as is shown in Figs. 1 and 8 of the drawings.

In practice we prefer to use card or paste board for the labeling-tags C, and print upon the same what is desired to be designated upon them; but, if desired, they may be made of metal or any other suitable materials, and imprinted, stamped, or cut out upon the same, instead of printed.

The holding-arms *d* of the holder B may be bent around the spring-coil to hold the same by hand or by suitable automatic mechanism designed for the purpose.

When it is desired at any time to apply a gage to the spring to ascertain its size, if not labeled, or to ascertain if its sizes are labeled correctly, its outer end may be disengaged, so that the gage may be applied to it by simply bending back the arm *d*, coming over the end, as shown in Fig. 4 of the drawings, and then back again after the operation by hand, the

flexibility of the metal used for the holders admitting of the same.

It will be observed that a coiled spring when held in position and labeled, as before described, and shown in the drawings, presents a much neater and more pleasing appearance than by the old methods now employed, and while being fastened in a very secure manner are very easily unfastened for use. By the employment of such fastenings they may be reused an indefinite number of times for fastening other springs, if desired.

The holder B may be used for holding a spring without the labeling-tag C, and said holder may also be used with a plain face, instead of being marked, as before described, if preferred, without departing from the principle of our invention.

Having described our combined shipping-tag and holder for watch and similar springs, what we claim therein as new and of our invention, and desire to secure by Letters Patent, is—

The combined spring and tag-holder, comprising a circular plate and holding-arms in one piece therewith, said plate being cut away in the middle to expose a label beneath, substantially as described.

CHAS. H. MORGAN.

EDWIN J. WATSON.

HORACE W. WILLSON.

Witnesses:

HARRY A. WILLARD,

ALBERT A. BARKER.