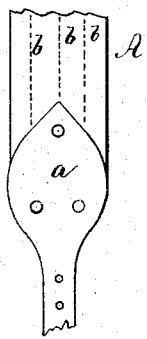
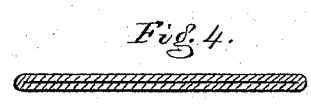
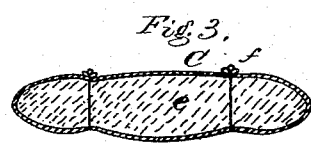
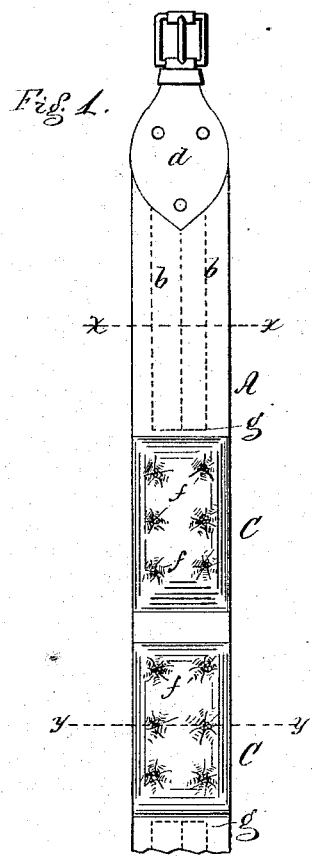


H. M. WITTER.  
Surcingle.

No. 160,560.

Patented March 9, 1875.



Witnesses.  
S. H. Crutcher.  
Wm. Pratt.

Inventor.  
Henry M. Witter.  
PER Crosby & Gregory ATTYS.

# UNITED STATES PATENT OFFICE.

HENRY M. WITTER, OF WORCESTER, MASSACHUSETTS.

## IMPROVEMENT IN SURCINGLES.

Specification forming part of Letters Patent No. 160,560, dated March 9, 1875; application filed February 8, 1875.

*To all whom it may concern:*

Be it known that I, HENRY M. WITTER, of Worcester, county of Worcester and State of Massachusetts, have invented an Improved Surcingle, of which the following is a specification:

My invention relates to improvements in surcingles or girts for use in stables or other places, and in connection with horses, and has for its object the production of a stuffed or padded surcingle.

My invention consists in a practically solid surcingle or web of woven material, having an intermediate pocket or pockets adapted to receive a padding or filling material, as hereinafter described.

Figure 1 is a plan view of the outer side of one of my improved surcingles, a part being broken out. Fig. 2 is a section on line *x x*; Fig. 3, a section thereof on line *y y*; and Fig. 4, a section of a modified form, the figures 2, 3, 4 being enlarged.

In the drawing, A is a girt or web of suitable length, (usually about sixty-three inches,) and of suitable width, this being a matter of fancy on the part of the manufacturer or purchaser. This girt is woven tubular or in two plies, as seen in cross-section, Fig. 2.

I usually commence at the end having the strip *a*, stitch the parts of the tube together for, say, thirty-seven inches, more or less, with a suitable number of lines of stitching. There are three shown at *b*. Then I leave the girt open or tubular for a distance of seven inches, more or less, to form a pocket, C; then again unite the webs for a distance of, say, one inch; then form another pocket, C, of seven inches, more or less; then again unite the web, by stitches, for eleven inches, more or less; and then attach the buckle-holding portion *d*. I then cut the pockets C C at the sides, or at any suitable place, and insert therein any suit-

able stuffing material *e*—tow, hair, cotton, or other substance—and then sew up the pockets, and preferably tuft the stuffed pockets, as at *f*.

Instead of leaving the space between the pockets, the pocket may be one long pocket; or there might be more than two pockets.

Instead of stitching the plies of the girt-web together, I may unite them by cement, cement containing a solution of rubber being preferable on account of its withstanding the action of water; or I may unite the webs in any other well-known way, so as to make the parts A of the web practically solid.

The girt is woven in a loom capable of weaving a tubular fabric, and preferably of cotton or wool; and the end pieces *a d* are preferably riveted to the girt, the ends of the girt being slotted centrally and drawn in between the plates of leather at the ends, thereby bringing the edges of the girt in flush with the leathers *a d*. The web is stitched crosswise at *g g*.

Having described my invention, I claim—

1. A surcingle composed of a tubular fabric, having intermediate pocket-spaces, forming a part thereof, substantially as described.

2. A surcingle having intermediate stuffed pockets, forming integral parts thereof, and practically solid ends, substantially as described.

3. A surcingle having intermediate stuffed and tufted pockets, forming integral parts thereof, practically solid ends, and leathers *a d*, substantially as described.

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

HENRY M. WITTER.

Witnesses:

J. A. WARE,  
HORACE WYMAN.