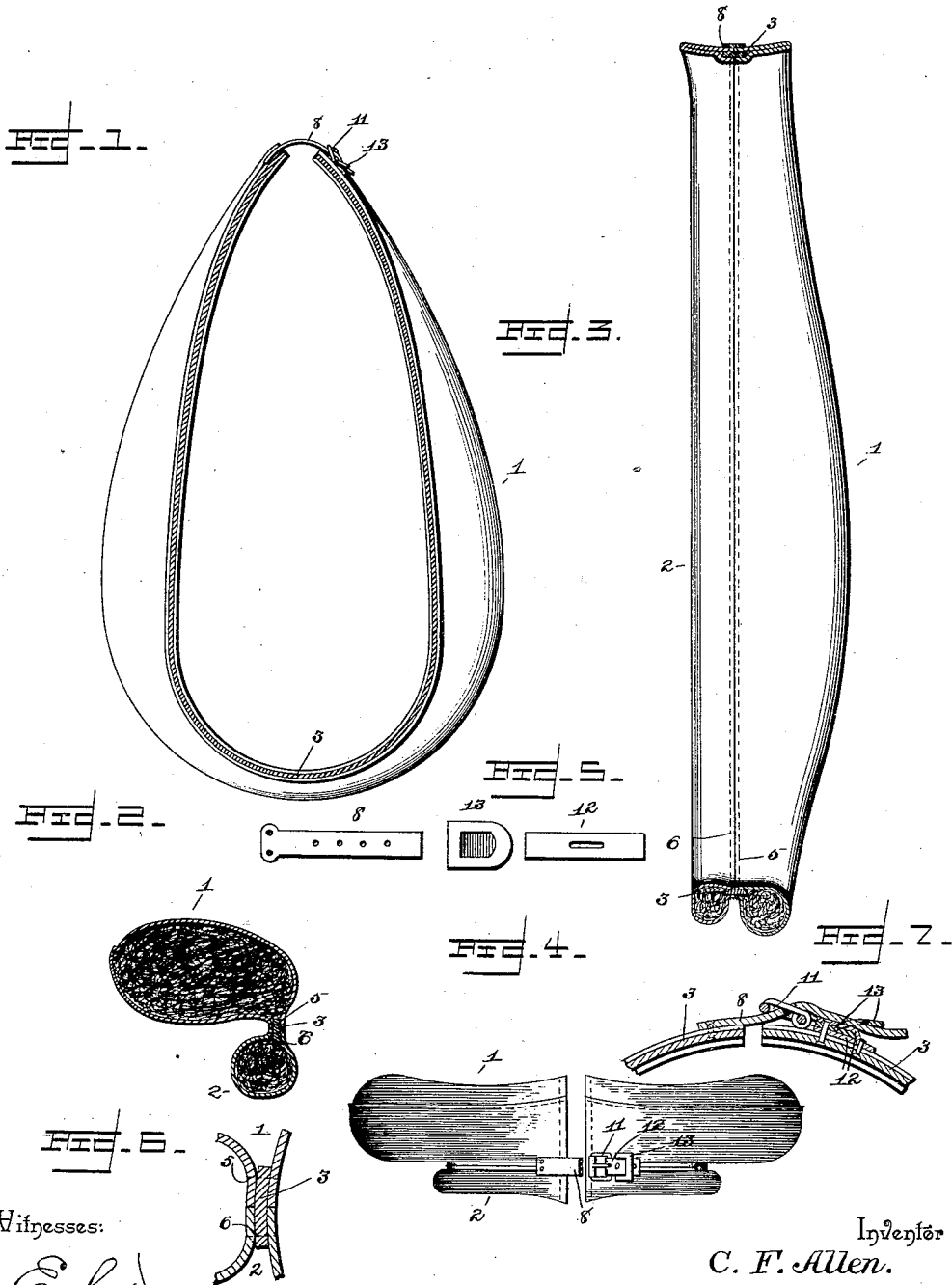


(No Model.)

C. F. ALLEN.
HORSE COLLAR.

No. 475,430.

Patented May 24, 1892.



Witnesses:

C. S. Duwall By his Attorneys,
W. S. Duwall

Inventor
C. F. Allen.

C. F. Allen & Co.

UNITED STATES PATENT OFFICE.

CHARLES F. ALLEN, OF NORTH ST. PAUL, MINNESOTA.

HORSE-COLLAR.

SPECIFICATION forming part of Letters Patent No. 475,430, dated May 24, 1892.

Application filed December 5, 1891. Serial No. 414,156. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. ALLEN, a citizen of the United States, residing at North St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and useful Horse-Collar, of which the following is a specification.

This invention relates to improvements in horse-collars; and the objects in view are to provide a collar possessing great strength and durability, as well as increased flexibility, and to provide a simple, strong, and convenient means for securing the collar-sections.

Other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a longitudinal section of a horse-collar constructed in accordance with my invention. Fig. 2 is a transverse section through one of the collar-sections. Fig. 3 is a vertical transverse section. Fig. 4 is a plan. Fig. 5 is a plan view of the several details composing the upper collar-section fastening. Fig. 6 is an enlarged detail in cross-section of the joint. Fig. 7 is a longitudinal section of the fastening.

Like numerals of reference indicate like parts in all the figures of the drawings.

In practicing my invention I employ the usual rear roll or body 1 and front roll or rim 2, the same being constructed in the ordinary manner and suitably stuffed. I interpose between said edges the opposite longitudinal edges of a leather belt or strap 3, the edges of the rolls embracing said strap for one-half its width and therefore meeting at the center of the strap. To this strap the edges of the two rolls are independently stitched, the rear roll as at 5 and the front roll as at 6. The rolls thus connected, it will be obvious, are practically flexibly hinged together, and a yielding of one or both may take place without straining the stitches. It will be seen that should either of the rolls become worn and need replacing it may be readily removed from the leather belt and a new roll substituted therefor without any disturbance whatever of the remaining roll, which is entirely independent. It will also be obvious that in lieu of the

leather belt or strap I may substitute other material, such as heavy canvas, sheet metal, &c.

The hames, located between the rolls and bearing on the stitches of the seam, have heretofore caused an early wearing away of the stitches and a consequent ripping of the collar at this point. I obviate this by my invention in that after the collar is stuffed each seam occupies a corner at the extreme angles of the crease and into which the hame cannot enter, but, on the contrary, only touch this portion of the collar at a point between the stitches or at the center of the crease and cannot be made to press either seam, so that, as will be evident, I avoid all wearing of the stitches. A further advantage is secured by the economical cutting of the stock that results from a collar thus constructed.

8 designates a billet preferably riveted at its inner end to the upper end of one of the collar-sections, as indicated at 9. A chape 12 is riveted to the opposite collar-section and loosely engages the frame of an ordinary buckle 11 for adjustably engaging with the billet.

13 designates a solid loop formed of leather and integral, the loop being stamped or cut out from the small scrap of stock embraced by the terminals of the leather loop and secured by the same rivets that fasten the leather loop to the collar-section. An eye or keeper thus formed will be found cheaper and more readily applied than the ordinary strap-loop or keeper.

From the foregoing description, in connection with the accompanying drawings, it will be at once apparent that I have provided a collar embodying substantial improvements in that I increase the durability, flexibility, and comfort with which the collar may be worn, as well as save stock in the cutting of the parts, and, furthermore, I greatly facilitate the finishing of the upper ends of the sections with the billets, loops, buckles, and chapes.

Having described my invention, what I claim is—

1. The herein-described horse-collar, consisting of the front and rear rolls, the covers of which are independent, and the interme-

5 diate flexible belt, the edges of the covers abutting and being stitched thereto near the edges thereof at each side of the point of contact with the hames, substantially as described.

10 2. The herein-described horse-collar, consisting of the front and rear rolls, the covers of which are independent, the intermediate flexible belt, the edges of the cover abutting
10 and being stitched thereto near the edges thereof at each side of the point of contact with the hames, the billet riveted to the upper end of one section and to the belt, the loop,

the buckle located therein and adapted for engaging the billet, the integrally-formed eye 15 receiving the loop, and the rivet passed through the eye, loop, and remaining section and opposite end of the belt, substantially as specified.

In testimony that I claim the foregoing as 20 my own I have hereto affixed my signature in the presence of two witnesses.

CHARLES F. ALLEN.

Witnesses:

FRANK T. WIEDEMANN,
GEO. W. HARDING.