

(No Model.)

T. N. MATHIAS.
HORSE COLLAR FASTENER.

No. 435,149.

Patented Aug. 26, 1890.

Fig. 1.

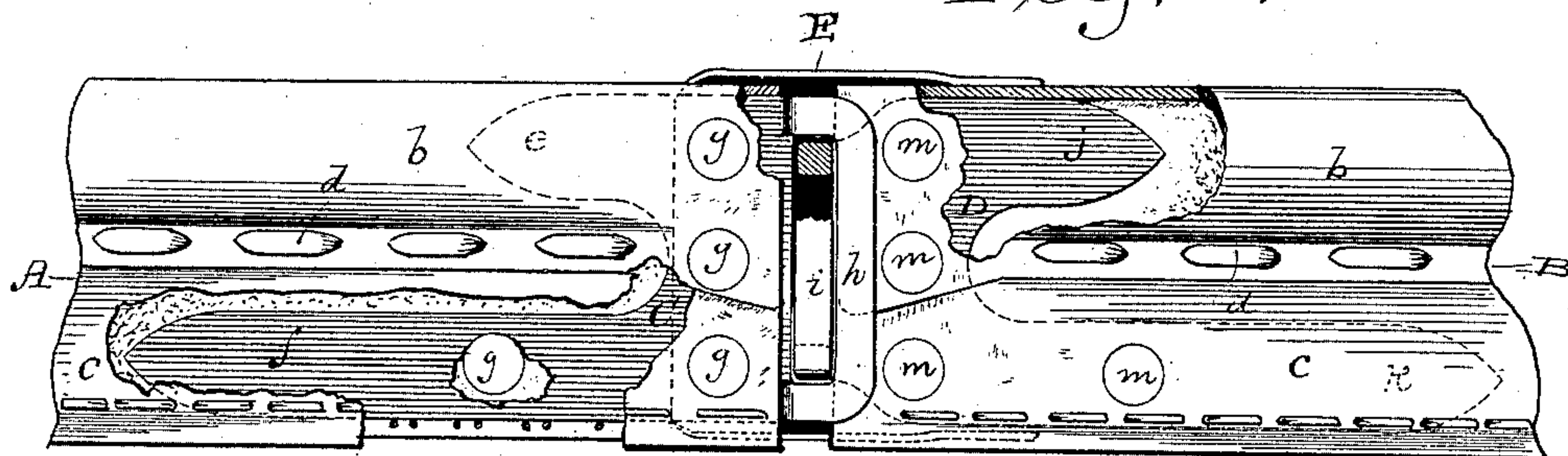


Fig. 2.

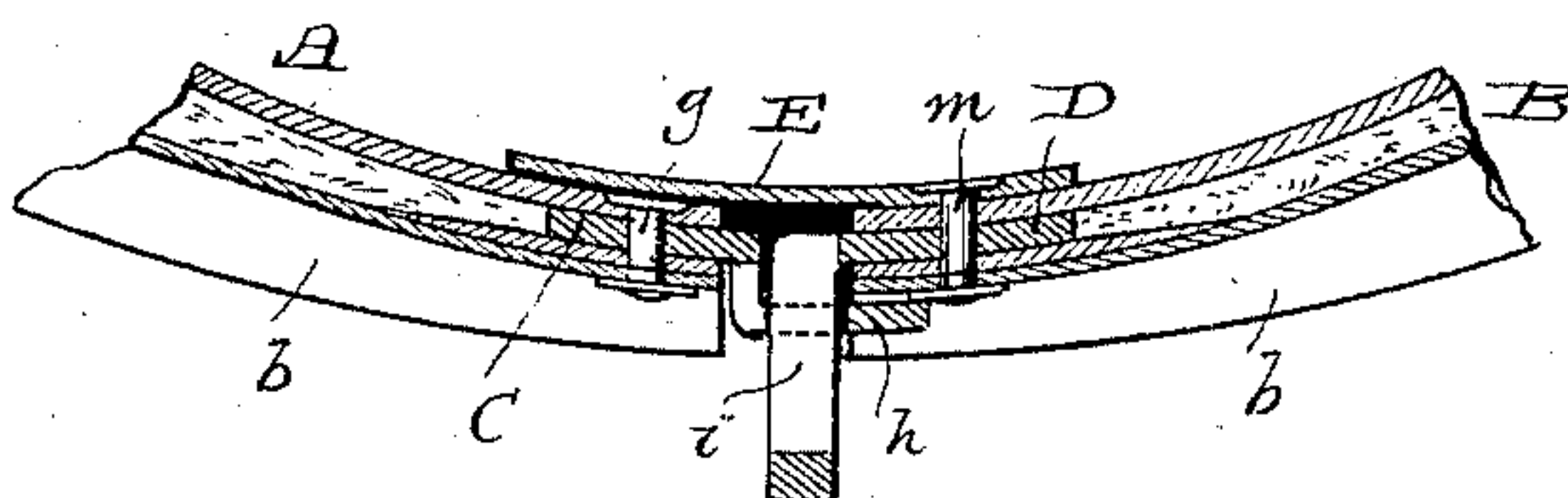


Fig. 3.

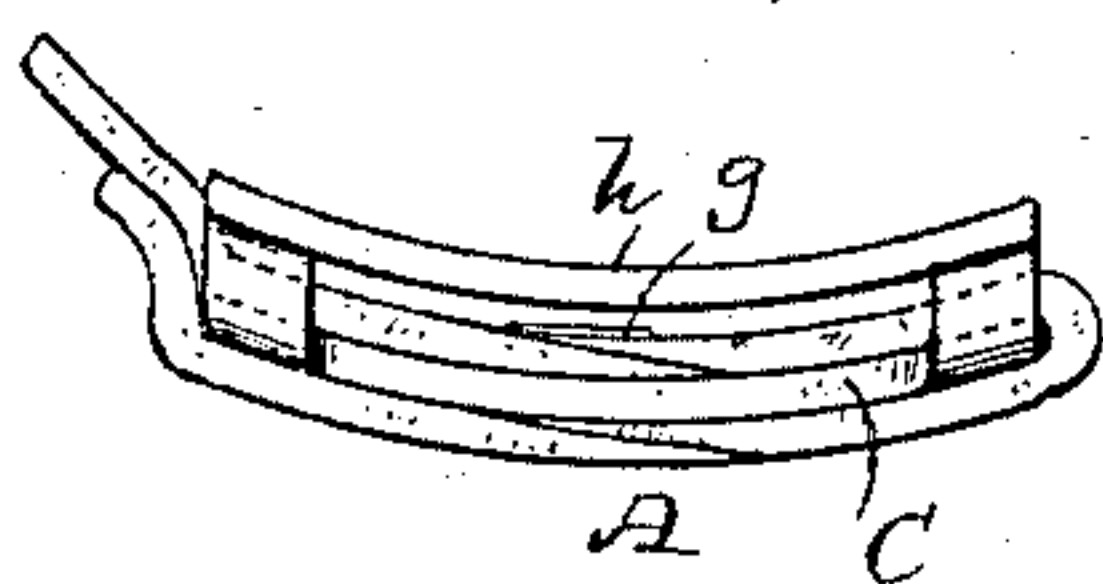


Fig. 4.

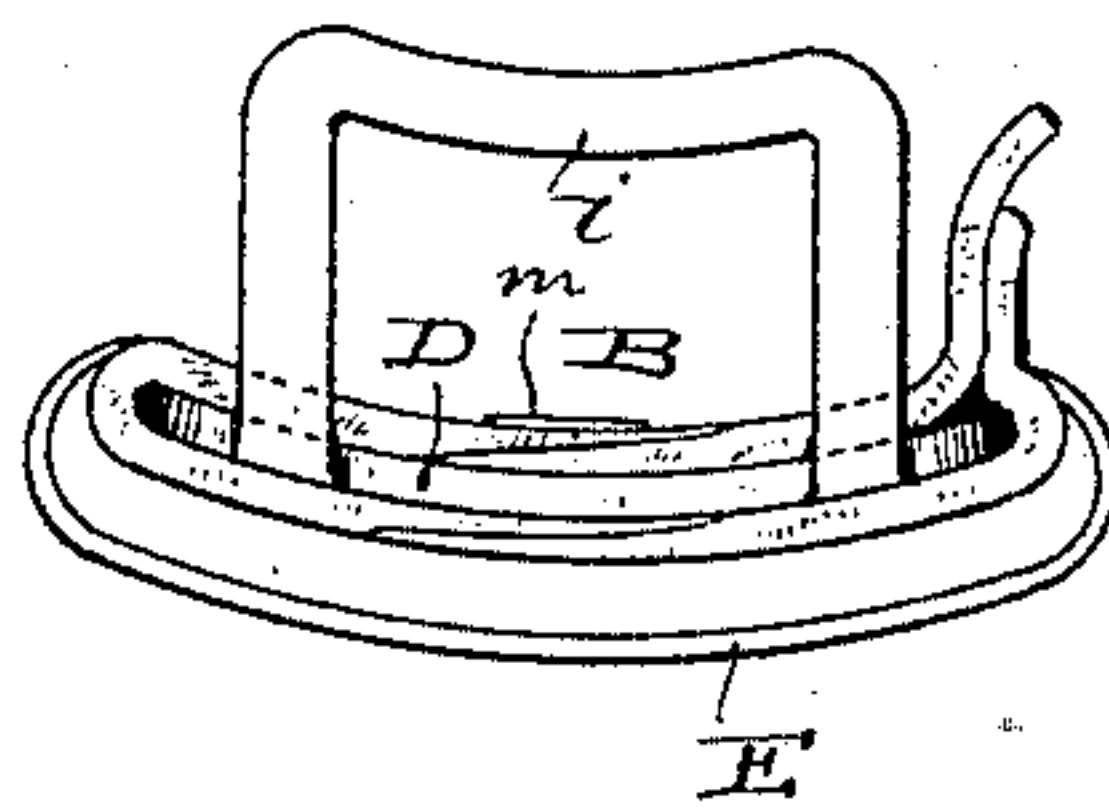
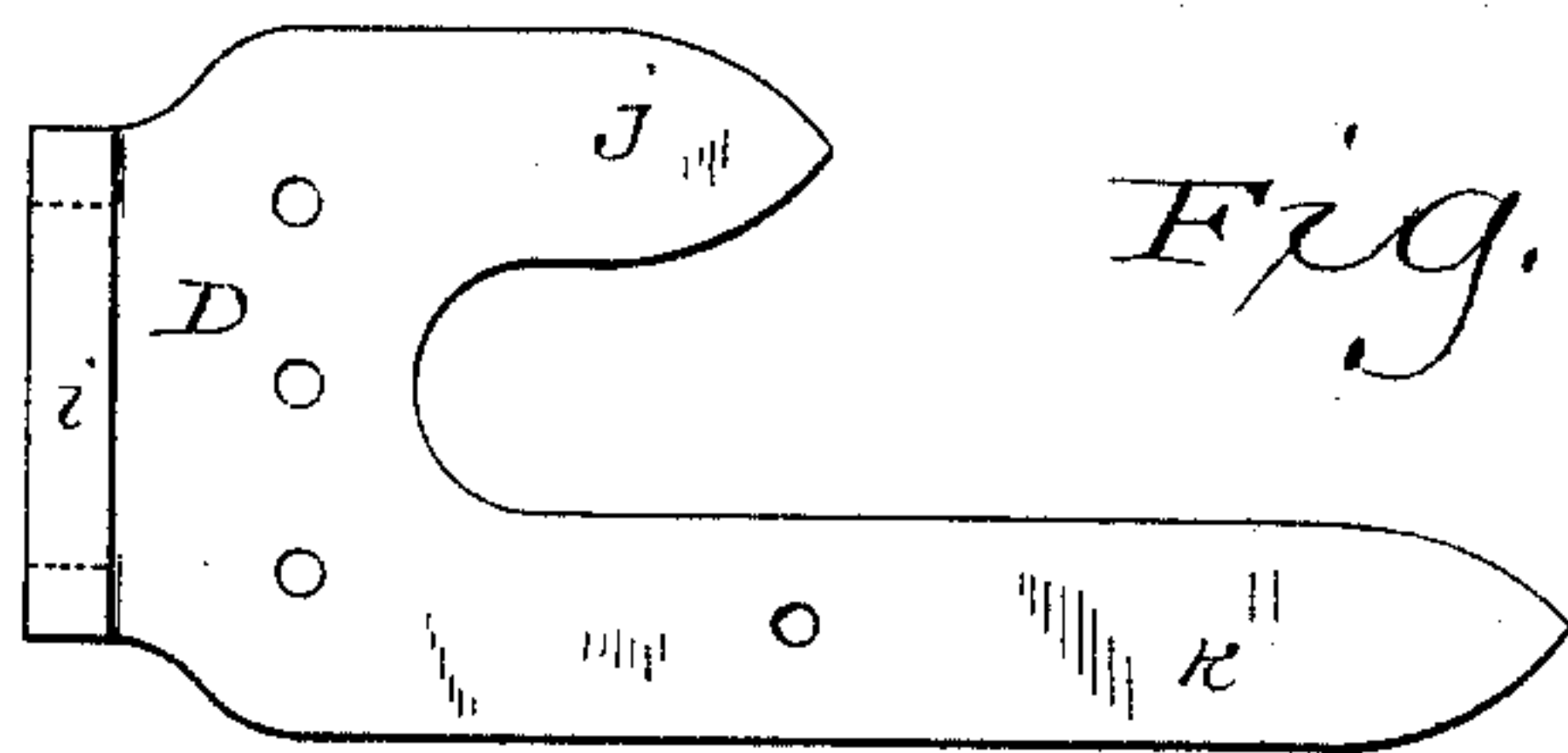


Fig. 5.



Witnesses
Geo W Young.
N. E. Oliphant.

Inventor
Theodore N. Matthias

By H. G. Underwood
Attorney

UNITED STATES PATENT OFFICE.

THEODORE N. MATHIAS, OF MILWAUKEE, WISCONSIN.

HORSE-COLLAR FASTENER.

SPECIFICATION forming part of Letters Patent No. 435,149, dated August 26, 1890.

Application filed January 27, 1890. Serial No. 338,224. (No model.)

To all whom it may concern:

Be it known that I, THEODORE N. MATHIAS, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Horse-Collars; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to separable horse-collars; and it consists in certain peculiarities of construction and combination of parts, to be hereinafter described with reference to the accompanying drawings, and subsequently claimed.

In the drawings, Figure 1 represents the throat portion of a separable horse-collar, partly broken away to better illustrate the location of plates that form the sections of a fastener for said collar; Fig. 2, a sectional view of the same; Figs. 3 and 4, end views of the collar-sections, and Fig. 5 a detail plan view of one of the fastener-sections.

Referring by letter to the drawings, A B represent the opposing sections of a separable horse-collar, the inner edges of the rim *b* and belly *c* in each section being overlapped and stitched together by means of a thong *d*, as is usual in the art.

Inserted in the throat end of the collar-section A is a plate C, the latter being provided with prongs *e f*, that extend back into the rim and belly of said collar-section on opposite sides of the sewing-thong. The plate and its prongs are bent to correspond with the contour of the collar-section and are secured to the latter by means of rivets *g*, these rivets being so disposed as not to interfere with the sewing-thong. The outer end of the plate C is provided with a right-angled slotted extension *h* for engagement with a staple *i* on the outer end of a plate D having prongs *j k* that extend back into the rim and belly of the collar-section B on opposite sides of the sewing-thong *d*, the latter plate being secured in said collar-section by means of rivets *m*, these rivets being arranged so as not to interfere with said sewing-thong. The plate D and its prongs are bent to correspond with the contour of the collar-section in which it is inserted, and the said plates C D stiffen the throat of the collar and increase the

strength thereof at the point most affected by the draft. By having the plates C D inserted in the throat ends of the collar-sections A B, and the folds of leather forming the rims and bellies of said collar-sections riveted to said plates, I form a neater joint at the throat of the collar and avoid the blunt throat ends common to the sections of separable horse-collars of the usual construction. The leather at the throat ends of the collar-sections comes against the extension *h* of plate C and the staple *i* of plate D, and I prefer to provide the inside of one collar-section with a guard E, that overlaps the opposing section, to prevent any pinching or chafing of the animal to which the collar may be fitted. The staple *i* of the plate D being passed through the slotted extension *h* of the plate C, the collar-sections are united, the staple being held against withdrawal by any suitable means, the hame-strap being usually employed. The prongs on the plates being on opposite sides of the sewing-thong of the collar is of material importance, because the said thong cannot be injured by the rivets that hold said plates in position.

I am aware of a separable horse-collar provided with a fastener comprising two parts which are doubly-flanged or V-shaped in cross-section and secured to the outside of the collar-sections, one of said parts being provided with a slot and the other with a loop or staple adapted to enter and project through said slot.

I am also aware of a fastener comprising pronged coupling-plates for adjustable connection with the upper ends of collar-sections.

I am further aware of a fastener having each section thereof in the form of a plain bar secured to the outside of a collar-section and provided with lateral arms, while at the same time one section of the latter fastener is provided with a loop for the engagement of a staple on the opposing fastener-section; and I am still further aware of a variety of fasteners in the form of interlocking sockets designed to receive blunt throat ends of collar-sections; but such I do not claim.

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

A separable horse-collar having pronged fastener-plates inserted in the throat ends of its sections, the prongs of the plates extended back into the rim and belly portions of said sections on opposite sides of the sewing-thongs, rivets disposed to rigidly unite said plates and collar-sections without interference with said sewing-thongs, the right-angled slotted extension *h* at the outer end of the plate *C*, and the staple *i* on the outer end of plate

D, for engagement with said slotted extension of the former plate, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

THEODORE N. MATHIAS.

Witnesses:

N. E. OLIPHANT,
WM. KLUG.