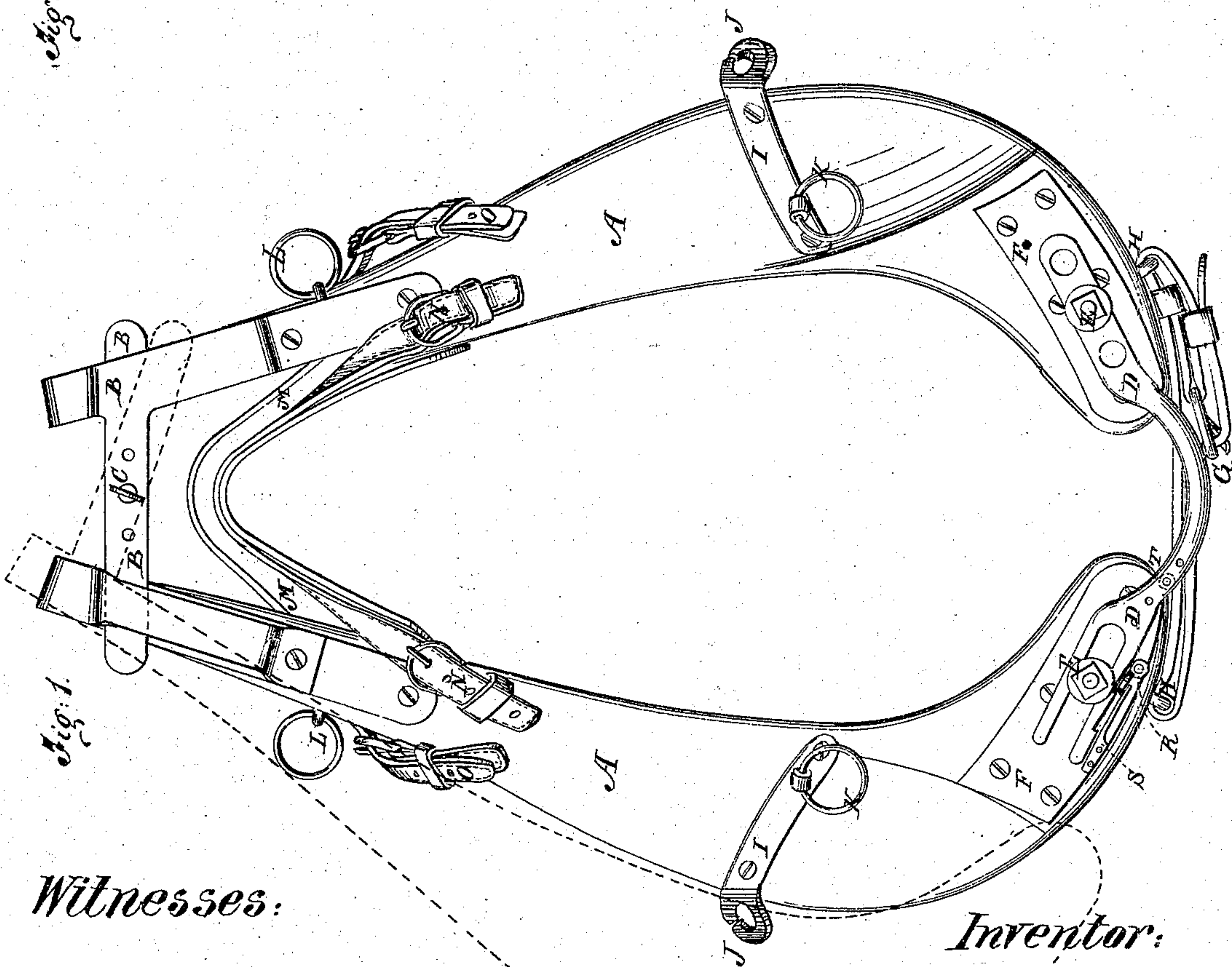
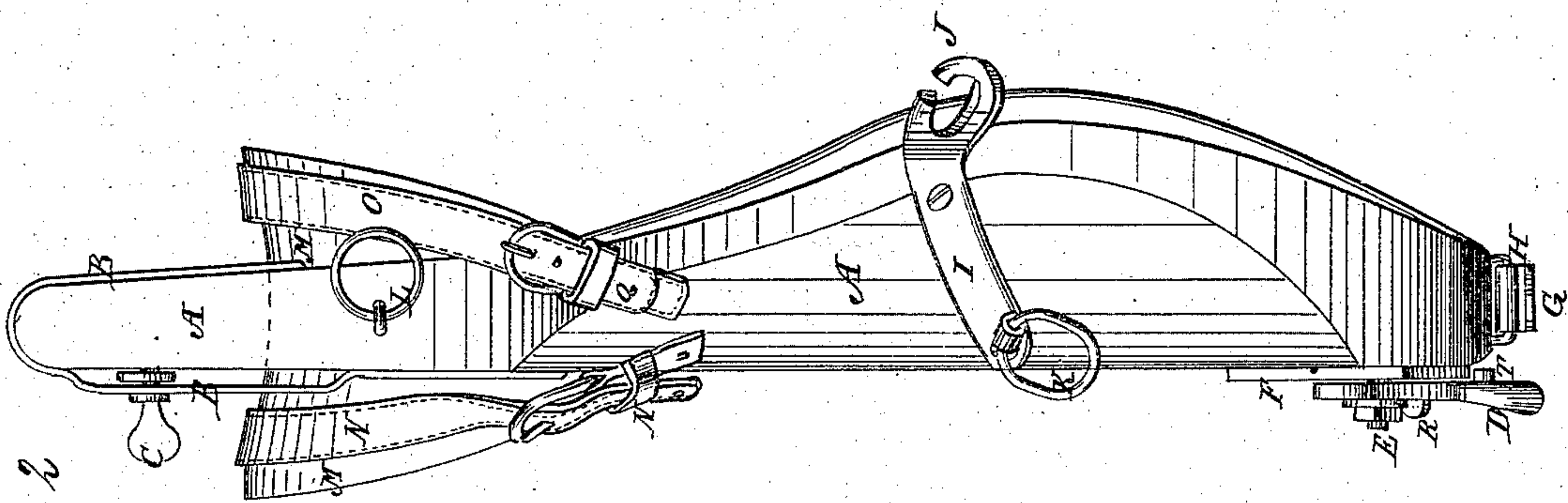


M. HUBBELL.

Combined Horse-Collars and Hames.

No. 152,801.

Patented July 7, 1874.



Witnesses:

Geo W Matthews
Richard F Fish

Inventor:

Martin Hubbell

UNITED STATES PATENT OFFICE

MARTIN HUBBELL, OF MOUNT KISCO, NEW YORK.

IMPROVEMENT IN COMBINED HORSE-COLLARS AND HAMES.

Specification forming part of Letters Patent No. **152,801**, dated July 7, 1874; application filed November 13, 1873.

To all whom it may concern:

Be it known that I, MARTIN HUBBELL, of Mount Kisco, in the county of Westchester and State of New York, have invented a new and Improved Combined Collar and Hames, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a front view, and Fig. 2 a side view, of my improved collar.

Similar letters of reference indicate corresponding parts.

The object of my invention is to furnish an improved substantial horse-collar, which is readily adjusted to the horse's neck at every desirable point, so as to fit the same without galling, and be quickly and easily taken off and applied.

In the drawing, A represents the hames, of wood or other suitable material, which are connected at the top by adjustable cross-bars B, fulcrumed by bolt and thumb-screw C, so as to admit thereby the opening and shutting of the hames for the purpose of putting on or taking off the collars. The cross-bars B may be extended or contracted by changing the fulcrum, and the hames thereby adjusted to the size of the upper part of the neck. The hames A are hung on the neck by a pad, M, attached by strong leather straps, which pad allows the oscillation of the main body of the collar at the points N, while the pad remains comparatively still on the neck, and obviates the galling at that point. The lower part of hames A is provided with face-plates F, having projecting bolts E made with thimbles, and top washers secured rigidly by top nuts. The

curved latch or guide D is pivoted to bolt E of one hame A, and has several holes, by which the width of the collar may be adjusted to the lower part of the neck. The other end of latch D is bifurcated for sliding over the bolt E of the other hame, having teeth or notches at the outer side, into which a pawl, R, locks by the pressure of spring S. By means of the teeth of latch D, the collar is rendered adjustable in width for the usual purposes, without necessitating the frequent changes of the latch on its pivot-bolt. The pawl holds the latch, and thereby the hames firmly connected, so that they cannot bend inward at the point of draft, and gall the horse. A stop-pin of latch D defines the extent of adjustability. An additional strap, G, is applied to staple H, requiring unbuckling when taking off the collar, so that, by pressing on the spring-pawl, the latch is released, allowing the lower part of the collar to spread, to be then easily removed.

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

As an improvement in horse-collars, the hames pivoted adjustably at the top, and connected at the lower part by a pivoted adjustable latch, which slides, with its forked and notched end, over the guide-bolt, and is locked thereon by a spring-pawl, substantially in the manner and for the purpose set forth.

MARTIN HUBBELL.

Witnesses:

GEORGE W. MATHEWS,
JAMES FISH.