

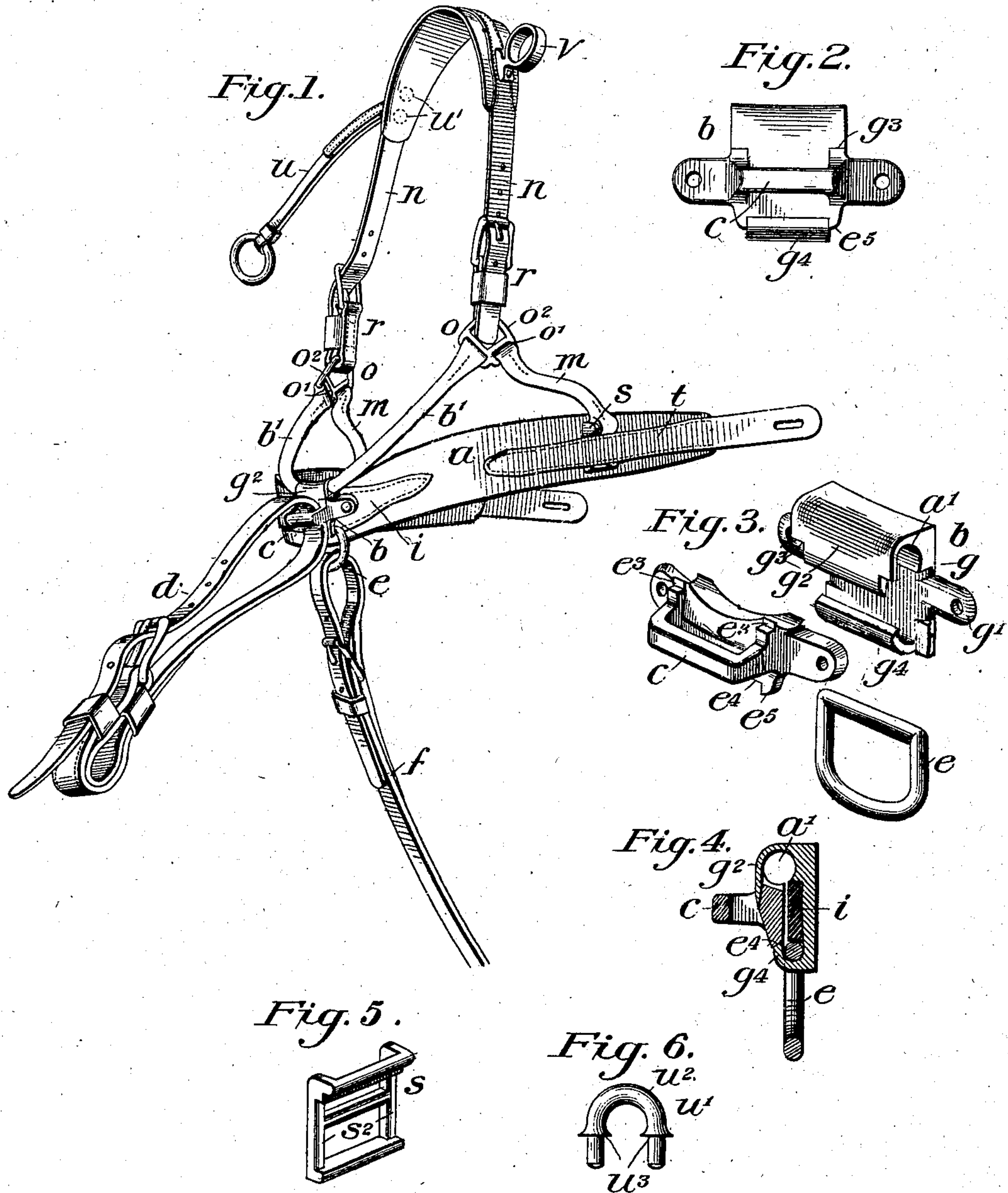
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G. E. PRATT.
BREAST COLLAR.

APPLICATION FILED JULY 15, 1902.

NO MODEL.



Witnesses

E. P. Gargee

Inventor:

G. E. Pratt.

William H. Hall
By

Att'y.

UNITED STATES PATENT OFFICE.

GEORGE E. PRATT, OF WINFIELD, IOWA.

BREAST-COLLAR.

SPECIFICATION forming part of Letters Patent No. 721,388, dated February 24, 1903.

Application filed July 15, 1902. Serial No. 115,739. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. PRATT, of Winfield, in the county of Henry and State of Iowa, have invented certain new and useful Improvements in Breast-Collars, of which the following is a specification.

My invention relates to harness, and particularly to the construction of breast-collars used in double harness; and its object is to provide a light, strong, and durable breast-collar of pleasing appearance which will comfortably fit the horse wearing the same and be free from projections or uneven parts to rub and chafe the animal.

To this end the invention includes the combination of parts and details of construction, as will be hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, like reference characters refer to like parts in all of the views.

In the drawings, Figure 1 is a perspective view of the complete breast-collar. Fig. 2 is a front elevation of the center guide-lug. Fig. 3 is a perspective view of the same, showing the section thereof separated. Fig. 4 is a transverse sectional view of said lug. Fig. 5 is a perspective view of one of the loops associated with the short brace-straps, and Fig. 6 is a detail view of the loop for the spread-strap.

In the particular embodiment of the invention illustrated in the accompanying drawings the breast-strap is indicated by the letter *a*. This part *a*, which presents a perfectly flat smooth inner face, has a guide-lug *b* arranged centrally of the same, which comprises an upper guide-opening *a'*, extending the full length thereof and dished or curved to conform to the general curve of the lower neck-strap *b'*, which is guided therein, a centrally-arranged forwardly-projecting horizontal loop *c*, which is designed to receive the yoke-strap *d*, and an under guide or seat which retains a loop *e*, designed to receive the martingale-strap *f*. The center guide-lug *b*, referred to, is preferably constructed of two sections—a back section *g*, which includes a body portion or back plate of substantially the full width of the breast-strap, having a perfectly flat rear face to rest against the

front face of said strap, centrally-arranged laterally-extending side lugs *g'*, provided with suitable openings, an overhanging part *g²*, forming a curved guide for the lower neck-strap *b'*, said part having an internally-beveled interlocking edge with laterally-extending interlocking shoulders *g³* and an upturned lower hook-shaped portion *g⁴*, having a beveled edge, said hook-shaped portion *g⁴* providing a channel or seat to receive a loop *g⁵*, which depends therefrom and extends below the lower edge of the breast-strap and is designed to receive the martingale-strap. The front section of the lug *b* comprises a horizontally-disposed forwardly-extending loop *c* for the reception of the yoke-strap, laterally-extending ears corresponding to the lugs *g'* and having corresponding alining openings, a body plate having an upper edge which forms part of the guide for the lower neck-strap, and is provided with an inclined upper front face and shoulders *e³*, said inclined portion fitting beneath the overhanging edge *g²*, said shoulders *e³* interlocking with the shoulders *g³*, the lower portion of said body having an inwardly-inclined edge *e⁴* to overlap and fit against the edge *g⁴* of the back section and ears *e⁵* to overlies the side edges of the upturned part of said back section. In attaching this central lug to the breast-strap the flat rear face of the section *g* is placed against the front face of the breast-strap and secured thereto by a binding strap or strip *i*, which passes over the front face of the intermediate part or body portion of said section *g* and is securely stitched to the breast-strap on each side thereof. Before the strap *i* is placed in position the loop *e* is seated in the channel formed by the upturned portion of the section *g*, and the lower edge of said strap *i* when in position lies directly over the mouth of said channel and in close proximity to the same, and thereby serves to lock the loop *e* in place. The back section *g* having been secured in position, the lower neck-strap *b'* is passed under the overhanging edge *g²* and pressed up into the guide-opening *a'* provided therefor. The front section is then placed in position by passing the upper inclined edge of the body thereof beneath the overhanging edge *g²* and pressing said sec-

tions upwardly until the shoulders thereof interlock with the shoulders g^3 . The front section then snaps into place, the lower inclined edge of the same overlapping the edge g^4 of the rear section. Rivets are then passed through the alining openings in the lugs g' and the corresponding ears extending laterally from the body of the front section, said rivets piercing the interposed strap i and being headed up upon the inner face of the breast-strap. It will be noted that this construction of lug presents an ornamental appearance, is provided with a smooth even exterior, and that the arrangement of the inclined and interlocking parts of the two sections serves to transmit any strain upon the loop c directly to the rear section g , and consequently the strain of the yoke-strap falls upon the binding-strap i rather than upon the rivets, it being understood that the pull of the yoke-strap is downwardly and outwardly.

The lower neck-strap, which is preferably round in cross-section, has its intermediate part guided through the opening a' , while its ends are secured to the short brace-straps m and to the upper neck-strap n by novel connecting members. Each of said connecting members o comprises a flat metallic plate having a pair of slots o' extending at an angle to each other, the bars forming the outer walls of which are engaged by the loop at the end of the brace-strap m associated therewith, and the loop at one end of the lower neck-strap, respectively, and a curved bar o^2 , forming integral continuations of the end walls of said slot. The latter bar of each member o has the loop of a billet r secured thereto, the free end of the latter being buckled to one end of the upper neck-strap n .

The lower end of each short brace-strap m is secured to the breast-strap by a novel connection which is strong and neat and which avoids undue rubbing of the end of said brace-strap against the breast-strap and the consequent wearing of the parts incident thereto. This connection comprises a metallic member s , having a flat rear side to rest against the face of the breast-strap, said member being located intermediate of the width of the latter and a distance below the upper edge thereof, an offset cross-bar s' to engage the loop at the lower end of the short brace-strap m , and a channel-face s^2 , which receives a binding-strap t , the latter being sewed to the breast-strap and serving to retain the member s securely in position. As will be appreciated, by offsetting the cross-bar s the loop at the end of the strap m is given plenty of play and the rubbing thereof against the breast-strap avoided.

The upper neck-strap has the ordinary spread-strap u and a rein-turret v secured thereto, the connection between the former and the neck-strap being effected by a novel construction of metallic loop u' , which includes a cross-bar u^2 and leg members adapted to be passed through the neck-strap and

headed up upon the under side thereof, said legs having shoulders u^3 , which rest upon the face of said neck-strap.

The construction and operation of my breast-collar will be readily understood upon reference to the foregoing description and accompanying drawings, and it will be understood that the parts may be altered or modified within a wide range without departing from the spirit of my invention.

I claim—

1. In a breast-collar and in combination, a breast-strap, an upper neck-strap, a lower neck-strap connected thereto, brace-straps connecting the ends of said collar-straps to said breast-strap, a yoke-strap, a martingale-strap, and means for connecting said yoke-strap, martingale-strap and lower neck-strap to the breast-strap, comprising a lug secured to the breast-strap having a longitudinal guide-opening for the neck-strap, a laterally-projecting loop to receive the yoke-strap, and a depending loop to receive the martingale-strap, substantially as described.

2. In a breast-collar and in combination, a breast-strap, an upper neck-strap, a lower neck-strap connected thereto, brace-straps connecting the ends of said collar-straps to said breast-strap, a yoke-strap, a martingale-strap, and means for connecting said yoke-strap, martingale-strap and lower neck-strap to the breast-strap, comprising a lug having a horizontally-disposed rigid loop for the yoke-strap, a vertically-disposed pivoted loop for the martingale-strap, and a curved guide-opening extending from side to side of the lug for the lower neck-strap, substantially as described.

3. In a breast-collar and in combination, a breast-strap, an upper neck-strap, a lower neck-strap connected thereto, brace-straps connecting the ends of said collar-straps to said breast-strap, a yoke-strap, a martingale-strap, and means for connecting said yoke-strap, martingale-strap and lower neck-strap to the breast-strap, comprising a lug having a back section carrying guides for the lower neck-strap and the martingale-strap, and a front separable section carrying a guide for the yoke-strap, substantially as described.

4. In a breast-collar and in combination, a breast-strap, an upper neck-strap, a lower neck-strap connected thereto, brace-straps connecting the ends of said collar-straps to said breast-strap, a yoke-strap, a martingale-strap, and means for connecting said yoke-strap, martingale-strap and lower neck-strap to the breast-strap, comprising a sectional lug, one section thereof having an overhanging upper portion providing a guide for the lower neck-strap, an upturned lower edge providing a seat for the martingale-loop, and a front section having a loop for the yoke-strap, substantially as described.

5. In a breast-collar and in combination, a breast-strap, an upper neck-strap, a lower neck-strap connected thereto, brace-straps

connecting the ends of said collar-straps to
said breast-strap, a yoke-strap, a martingale-
strap, and means for connecting said yoke-
strap, martingale-strap and lower neck-strap
5 to the breast-strap, comprising a sectional
lug, one section thereof having an overhang-
ing upper portion providing a guide for the
neck-strap, the inner face of said overhang-
ing portion being beveled, laterally-extend-
10 ing shoulders formed on said portion, an up-
turned lower part having a beveled edge, a
loop seated therein, a binding-strap passing
over the face of the body portion of said sec-
tion and sewed to the breast-strap on each
15 side thereof, and a front section carrying a
loop for the yoke-strap having inclined parts
coacting with the inclined parts of the first-
named section and shoulders interfitting the
shoulders formed on the overhanging portion
20 of said first-named section, substantially as
described.

6. In a breast-collar and in combination, a
breast-strap, an upper neck-strap, a lower
neck-strap connected thereto, brace-straps
25 connecting the ends of said collar-straps to
said breast-strap, a yoke-strap, a martingale-
strap, and means for connecting said yoke-
strap, martingale-strap and lower neck-strap
to the breast-strap, comprising a sectional
30 lug, the back section thereof having an over-

hanging upper portion providing a guide for
the neck-strap, the inner face of said over-
hanging portion being beveled, shoulders
formed on said overhanging portion, later-
ally-extending lugs provided with openings 35
projecting from the body part of said back
section, an upturned lower part formed inte-
gral with said section having a beveled edge
to provide a channel, a loop seated in said
channel, a binding-strap extending over the 40
face of the body portion of said back section,
and sewed on each side thereof to the breast-
strap, a front section carrying a loop for the
yoke-strap having parts coacting with the in-
clined portions and the shoulders on the back 45
section, and having laterally-extending ears
provided with openings and rivets passing
through the opening in said ears, lugs the
binding-strap and the breast-strap, and head-
ed up upon the inner face of said breast- 50
strap, substantially as described.

In testimony whereof I have hereunto
signed my name, in the presence of two attest-
ing witnesses, at Winfield, in the county of
Henry, in the State of Iowa, this 7th day of 55
July, 1902.

G. E. PRATT.

Witnesses:

W. B. RIDGEWAY,
J. M. LINDLY.