

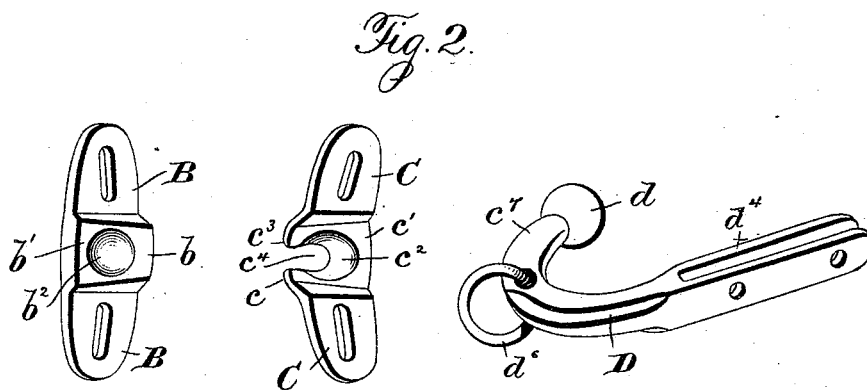
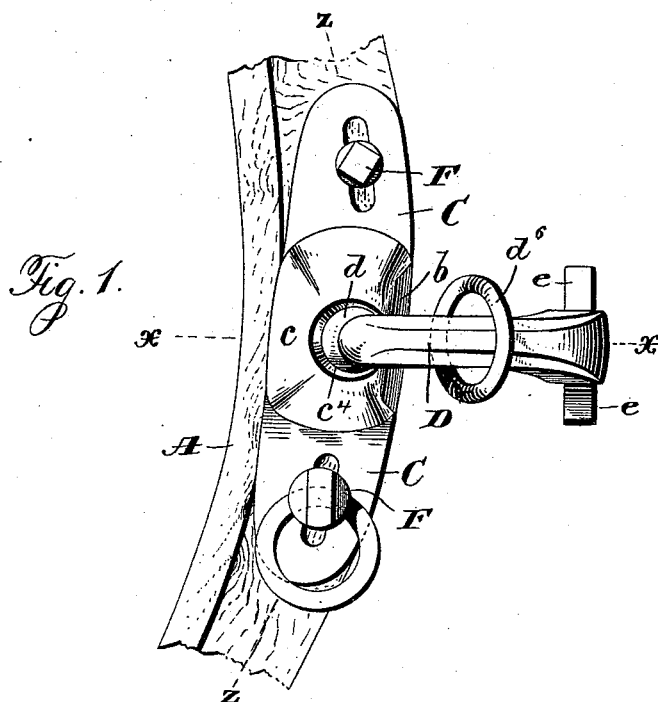
(No Model.)

2 Sheets—Sheet 1

J. Q. A. RUSSELL.
HAME.

No. 490,615.

Patented Jan. 24, 1893.



Witnesses:
Jas. E. Hutchinson.
J. Williamson.

Inventor.
John D. A. Russell.

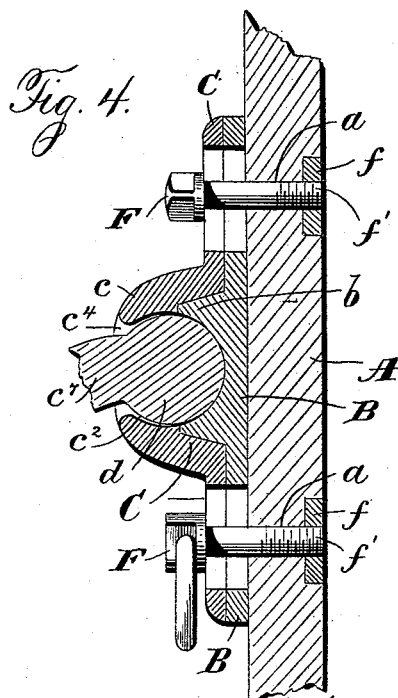
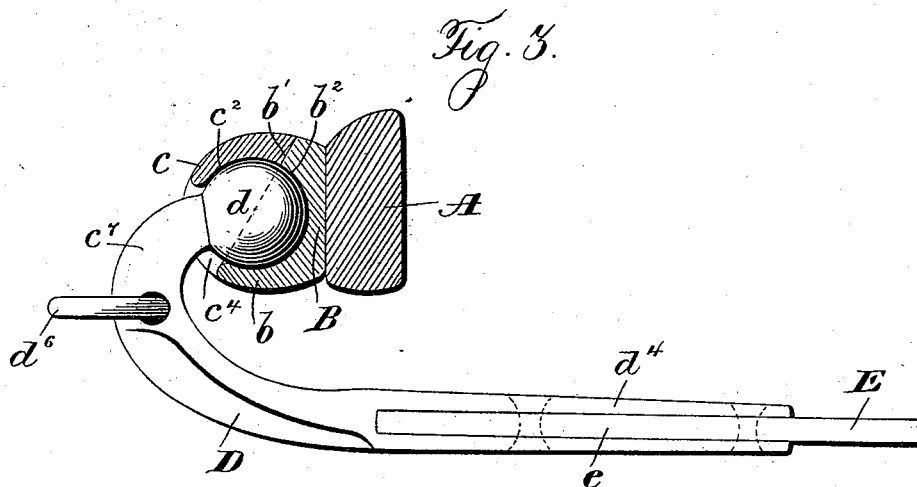
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2 Sheets—Sheet 2.

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Witnesses:
Jas. C. Hutchinson
by Williamson.

Inventor:
John, D. Russell.

UNITED STATES PATENT OFFICE.

JOHN Q. A. RUSSELL, OF SUPERIOR, NEBRASKA, ASSIGNOR OF ONE-HALF TO
MARY A. DICKEY, OF ESKRIDGE, KANSAS.

HAME.

SPECIFICATION forming part of Letters Patent No. 490,615, dated January 24, 1893.

Application filed March 28, 1892. Serial No. 426,840. (No model.)

To all whom it may concern:

Be it known that I, JOHN Q. A. RUSSELL, of Superior, in the county of Nuckolls, and in the State of Nebraska, have invented certain
5 new and useful Improvements in Hames; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

10 Figure 1 is a perspective view of my improved hame and trace coupling; in place on a hame; Fig. 2 is a front view of the parts of my coupling separated from each other; Fig. 3 a sectional view on line *x x* of Fig. 1, and
15 Fig. 4 a similar view on line *z z* of Fig. 4.

Letters of like name and kind refer to like parts in each of the figures.

The object of my invention is to provide an improved hame and hame-trace coupling and
20 to this end my invention consists in the coupling and in the construction, arrangement and combination of the several parts thereof as hereinafter shown and described.

In the drawings A represents a hame of ordinary construction to the front side of which
25 is attached my improved coupling. Said coupling consists of a base plate B of a shape substantially as shown, provided with the central projecting part *b*, the outer face *b'* of
30 which is arranged obliquely and contains a semi-spherical recess *b²*. Upon the plate B, is placed a second plate C corresponding in size and shape to said plate B and having the projecting part *c* that has a recess *c'* adapted
35 to receive and contain the projecting part *b* of plate B and a semi-spherical recess *c³* which with the semi-spherical recess *b²* form a spherical socket adapted to receive and contain the spherical head *d* of the trace-bar D.
40 The outer face *c³* of the part *c* is provided with an aperture *c⁴* which has an open side as shown at *c⁵* in the drawings.

From the head *d* the trace-bar D extends, first in a forward, then in a lateral and then
45 in a rearward direction, terminating in a forked end *d'* to which the outer end *e* of the trace E is secured in any desired manner.

My coupling is adjustably fastened to the front side of a hame by means of bolts F
50 which pass through slots in the plates B and

C, then through openings *a* in the hame, upon which it is held firmly in place by nuts *f* screwed upon the threaded ends *f'* of the bolts F. The nuts are contained and held in
countersunk cavities in the rear side of the
55 hame, their rear faces being flush with said rear side. The slots are of sufficient length to allow of quite a range of vertical adjustment, thereby permitting numerous lines of
60 draft.

To effect a different line of draft it is only necessary to loosen up the bolts a little, then move the coupling to the desired adjustment and then screw them to their locking position again, which can be accomplished in a few
65 moments.

I preferably, make that portion of the trace-bar D connecting the head *d* with the rearwardly extending part *d⁴*, a curved one, and it may be of such a length as to carry the
70 trace away from the side of the horse thereby preventing the wearing away of the hair of said animal, which is very common where the trace rubs against him. To the curved part of the trace-bar is attached the ring *d⁵* to
75 which the pole strap or chain may be fastened. The aperture *c⁴* of the part *c* has its walls made flaring to allow of a greater range of motion of the trace-bar neck *c⁷*.

In assembling the parts of my device the
80 head of the trace-bar is inserted in the recess of the base-plate, then the second plate is put upon the said base-plate, the open side of the aperture *c⁴* allowing the neck *c⁷* to enter the
85 said aperture, then said parts are placed upon the front side of a hame, adjusted to the desired position and finally bolted firmly in place.

My device is extremely simple in construction, strong without being of disproportionate
90 appearance, effective in operation and exceedingly durable.

Having thus described my invention what I claim is—

A hame having trace attaching means consisting of a bar attached to the front side, by a ball and socket connection and that extends forward, then laterally and then rearward to a point in rear of said front side, the socket being composed of a base-plate provided with a
100

projecting part having an outer inclined face
in which is a semi-spherical recess, a second
plate provided with a projecting part having
a recess for receiving and containing the pro-
5 jecting part of the base-plate and inclined
face in which is a semi-spherical recess, which
with the semi-spherical recess in the base-
plate forms a spherical socket for the ball,
said socket plates having ears or extensions
10 that are provided with slots through which

bolts pass, substantially as and for the purpose shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 18th day of February, 1892.

JOHN Q. A. RUSSELL.

Witnesses:

A. C. FELT,

D. BOSSERMAN.