

(No Model.)

C. HAUFF.
Harness Hame.

No. 242,824.

Patented June 14, 1881.

Fig. 1.

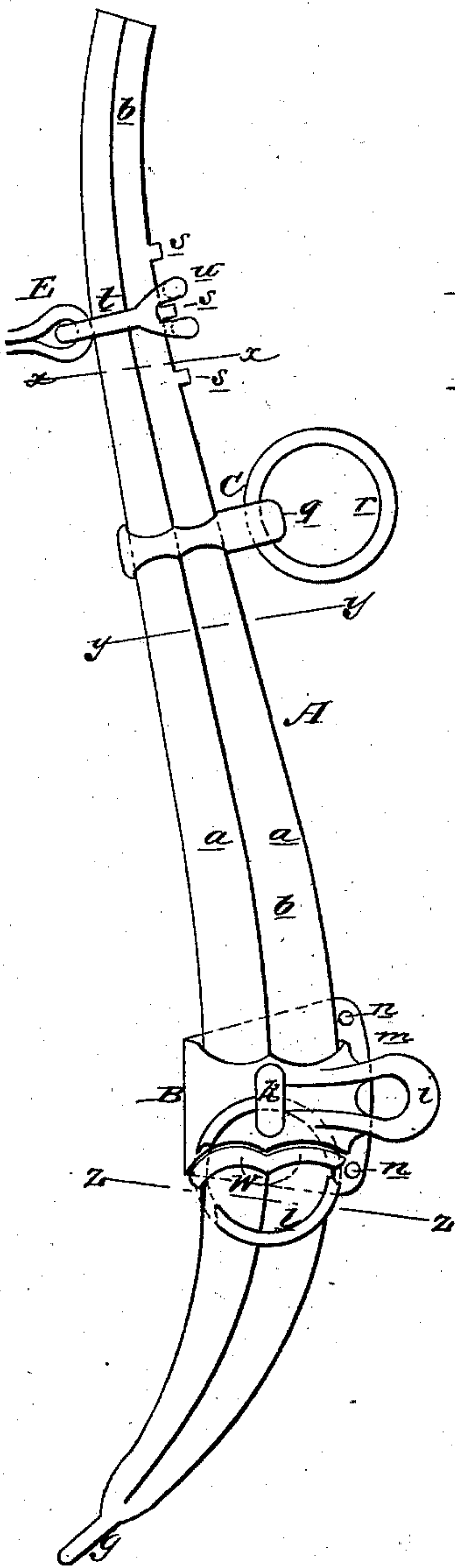


Fig. 2.

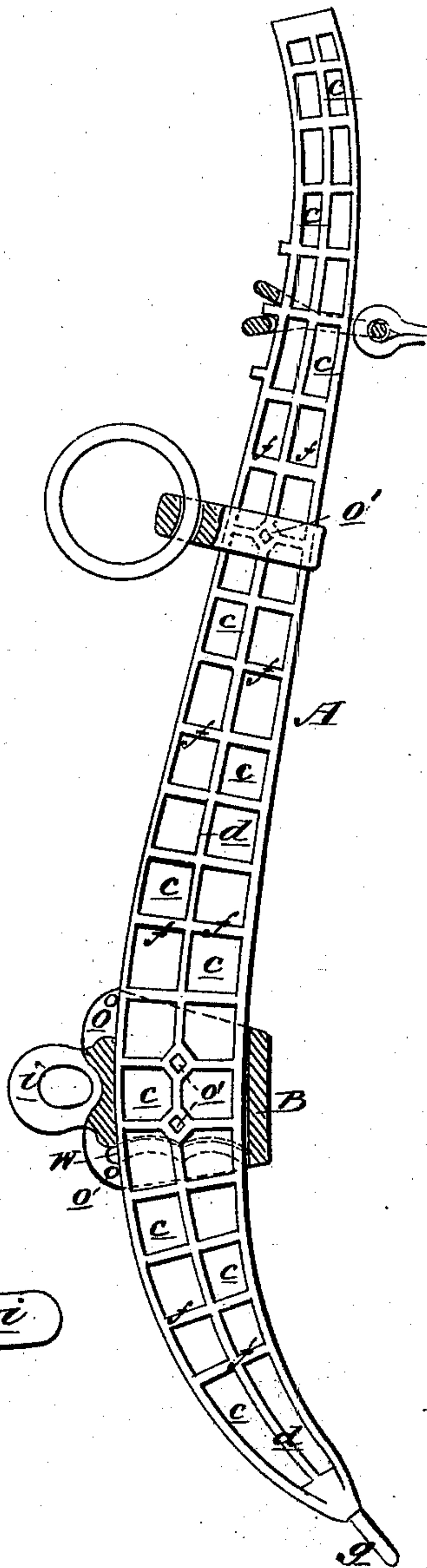


Fig. 3.

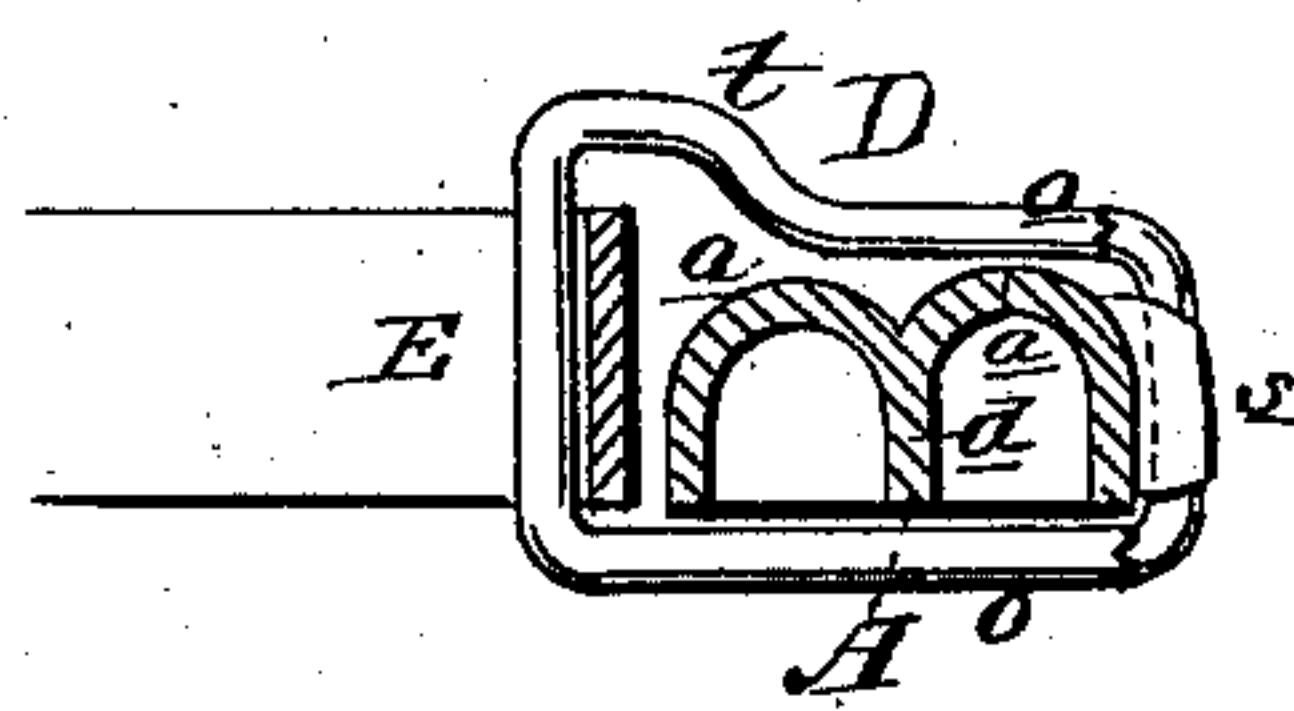


Fig. 4.

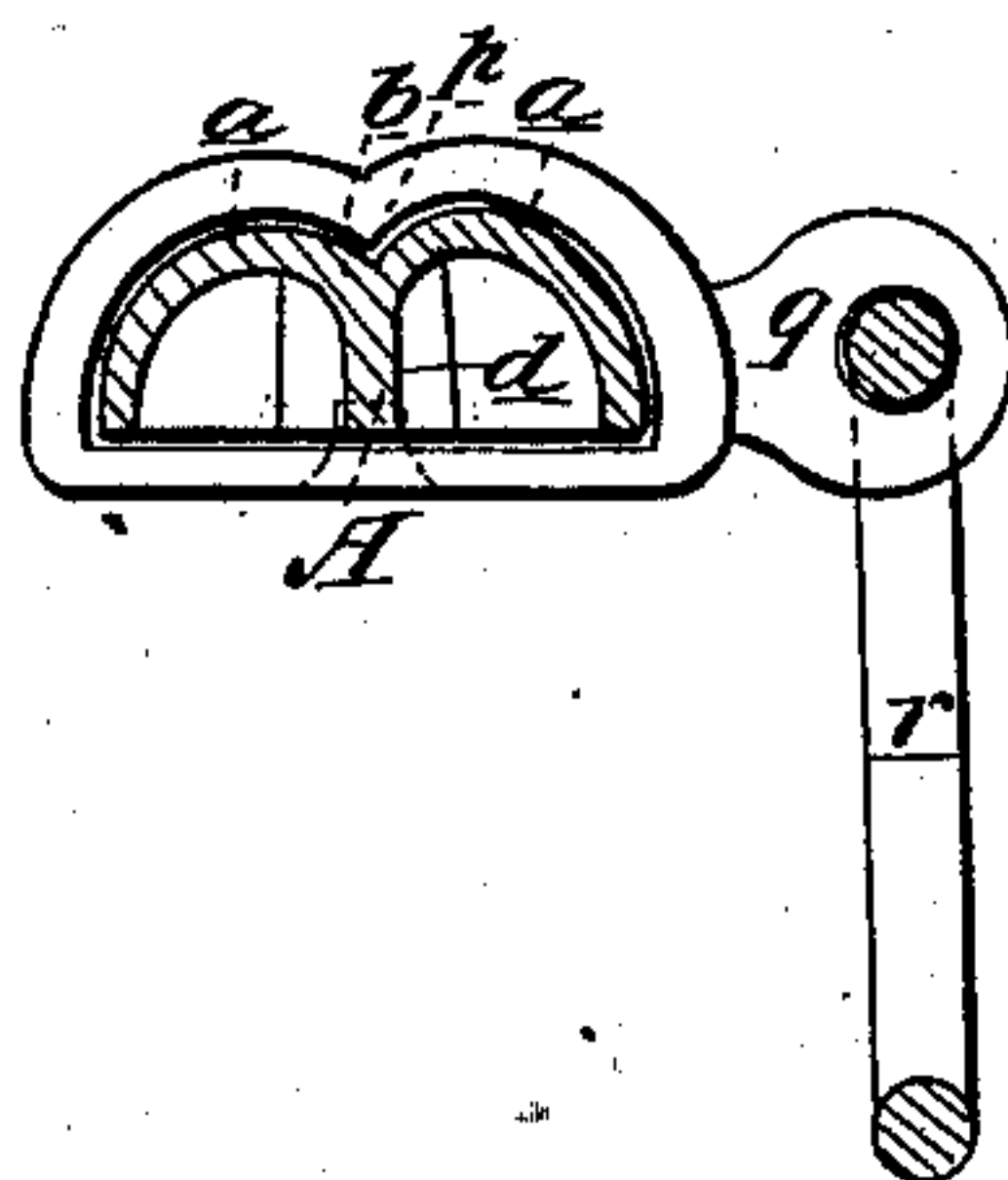
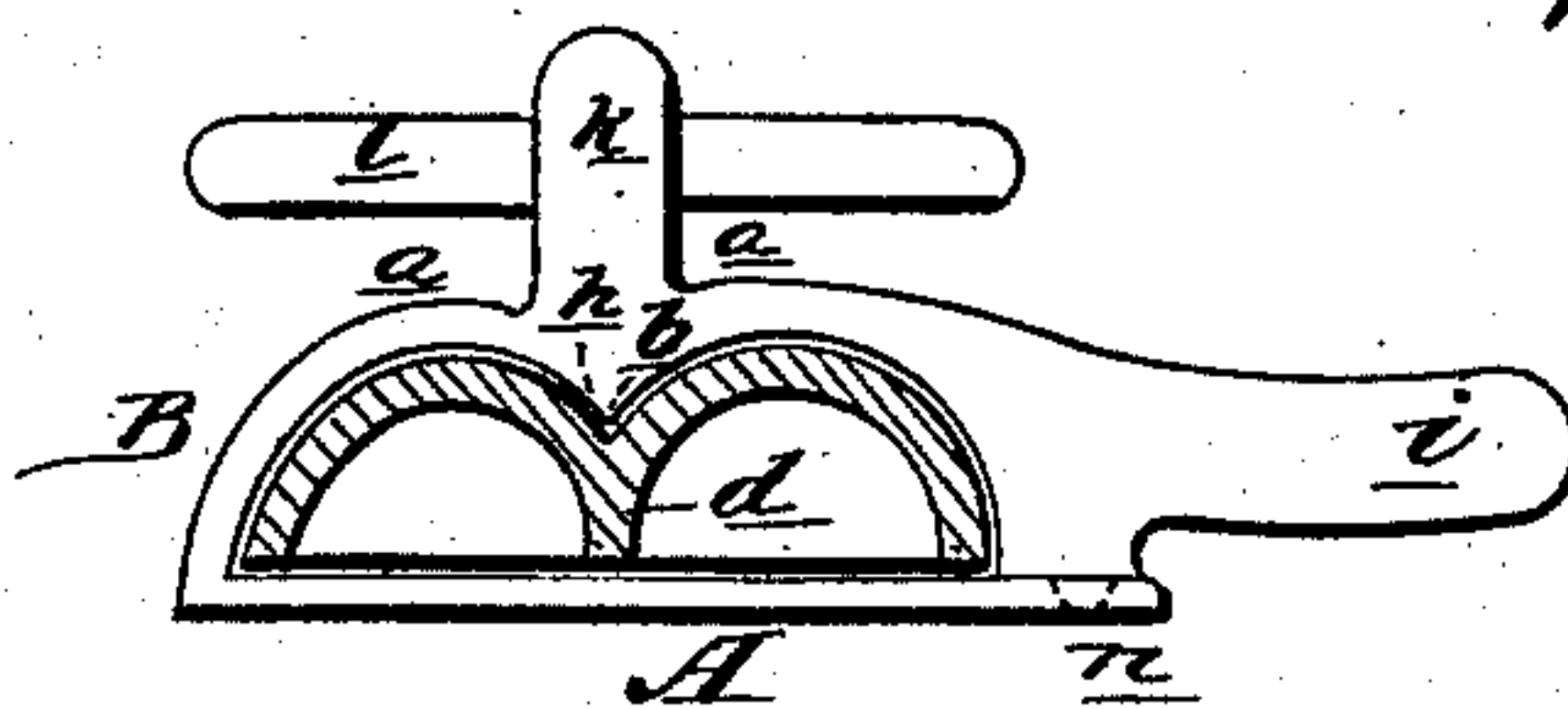


Fig. 5.



WITNESSES:

Francis M. Carter.
C. Sedgwick.

INVENTOR:

C. Hauff
BY *Henry H. Hauff*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHARLES HAUFF, OF ASHLAND, OHIO.

HARNESS-HAME.

SPECIFICATION forming part of Letters Patent No. 242,824, dated June 14, 1881.

Application filed October 30, 1880. (No model.)

To all whom it may concern:

Be it known that I, CHARLES HAUFF, of Ashland, in the county of Ashland and State of Ohio, have invented a new and Improved
5 Harness-Hame, of which the following is a specification.

The object of this invention is to construct a hame combining great strength, lightness, and durability, provided with independent re-
10 movable mountings that are adjusted and secured without the use of nuts, bolts, or screws, so that they may readily be replaced when broken.

The invention consists of a hame constructed
15 with a double-arched back, central interior rib, and cross-braces connecting the three ribs; and, further, of adjustable mountings provided with inward V-shaped lugs to fit in the longitudinal central groove of the double-arched
20 back of the hame, and thereby hold the mounting in position.

Figure 1 represents a front elevation of a hame with mountings in position. Fig. 2 is an elevation of the inner face of a hame with
25 mountings in position. Fig. 3 is a cross-section on line *x x*, Fig. 1. Fig. 4 is a cross-section on line *y y*, Fig. 1. Fig. 5 is a cross-section on line *z z*, Fig. 1.

Similar letters of reference indicate corre-
30 sponding parts.

In the drawings, A represents a hame consisting of a doubly and longitudinally arched casting, the crowns of the arches *a a* forming the outer surface of the hame A, and forming
35 at their point of union a V-shaped groove, *b*, extending the entire length thereof. The reverse face of the hame A, that is designed to rest against the horse-collar, is flat, and the interior or hollow portion of the hame A is
40 reticulated, as shown, the reticulations *c c* being formed by a central longitudinal rib, *d*, and a number of cross-braces, *f f*, that extend from either side of the rib *d* to the sides or side ribs of the said hame A.

45 On the lower extremity of the hame A is a loop, *g*, for the engagement of the hame-fastener.

The removable adjustable mountings consist of the band or clip B, flat on its under face to
50 correspond with the reverse face of the hame A, having a V-shaped central inward projec-

tion, *h*, to fit in between the two arches of the hame in the groove *b*, provided with a lateral projecting eye or staple, *i*, for the hame-tug, with an eye, *k*, for holding the breast-strap
55 ring *l*, and having ears *m*, provided with holes *n* for the attachment of suitable chafing-leathers. This mounting B may be held in place by being driven tightly upon the hame A against the fixed shoulder *w*, that is designed
60 to be cast on the hame A; or it may be made to fit more loosely and be held in place by countersinking certain points on its face into corresponding sockets, *o*, formed at the inter-
65 sections of rib *d* with cross-braces *f f*, as shown.

The hame-mounting further consists of a band or clip, C, made to encircle a smaller part of the hame A, and having a V-shaped
inward projection, *p*, to fit in the hame-groove
70 *b*, formed between the two arches of the hame, and provided with an eye, *q*, carrying the driving-rein ring *r*. Farther up on the hame A are three projecting lugs, *s*, that serve to hold in place another hame-mounting, D, which
75 consists of the hame-strap loop *t*, having a forked end bar, as shown at *u*, that fits over one of the lugs *s*, as shown, and thereby holds said mounting D in position.

E represents the hame-strap engaged in the
80 mounting D.

The mountings B C may be held in place by countersinking their surfaces into correspond-
ing sockets, *o o'*, or may be driven on tightly
85 and be made to bear against suitable shoulders, as shown at *w*, or may be secured in any other suitable manner.

In hames somewhat resembling mine the mountings are cast on the hame itself, so that when they are broken the hame is worthless and
90 cannot be repaired, whereas in my improved hame the mountings are made independent of the hame and can be attached and removed at will, and when broken can be replaced at small cost and trouble.

95 The junction of the arches *a a* affords in the V-shaped groove *b* a most effective means for preventing the turning of the mountings B C on the hame A, while serving, also, as a guide, whereby they may be accurately directed to
100 their proper positions.

Having thus fully described my invention, I,

claim as new and desire to secure by Letters Patent—

1. As an improved article of manufacture, a double-arched hame, made substantially as
5 herein shown and described, with a double-arched back, central rib, and cross-braces connecting the three ribs, as set forth.

2. In a double-arched hame, the mountings
10 B C, constructed with V-shaped lugs *h p*, respectively, to fit the double-arched back of the hame, substantially as herein shown and described, whereby said mountings may be set

in any desired position upon the hame, are held firmly in place where set, and may be easily removed or adjusted.

3. In a double-arched hame, the adjustable
band or clip B, having a V-shaped lug, *h*, and provided with eyes *i k* and breast-strap ring *l*, substantially as herein shown, and for the purposes described.

CHARLES HAUFF.

Witnesses:

ALONZO H. WILLIAMS,
ALBERT FASIG.