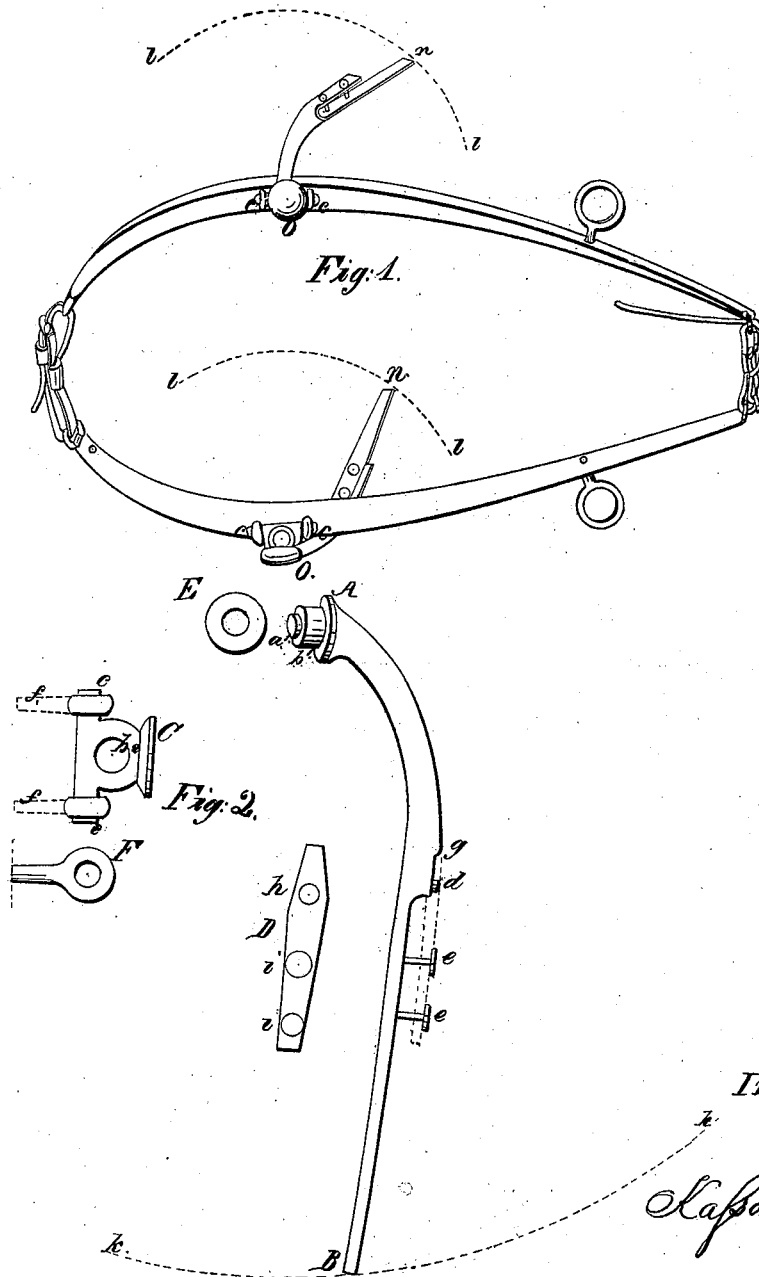


K. Frazer,
Harness Hames,
No. 4,773, *Patented Sept. 26, 1846.*



Inventor:

Kaplan Frazer

UNITED STATES PATENT OFFICE.

KASSON FRAZER, OF FAYETTEVILLE, NEW YORK.

HAME FOR HARNESS.

Specification of Letters Patent No. 4,773, dated September 26, 1846.

To all whom it may concern:

Be it known that I, KASSON FRAZER, of the village of Fayetteville, in the county of Onondaga and State of New York, have invented a new improvement in the construction of that part of the hame commonly called the clip of the common hame in hame-harnesses; I understand by the clip and I define it to be that part of the common hame which connects the hame-tug to the hame-wood by a rivet or rivets or otherwise, as the case may be.

The nature of my invention consists in so constructing the clip in a circular form at the forward end as to prevent it from pressing inward upon the collar of the harness and the shoulder of the horse. I call my invention the circular self-adjusting clip.

To enable others skilled in the art to make use of my invention I will proceed to describe its construction and operation.

I construct my hames in any of the known forms and instead of fastening the clip on the outside of the hame as in the common form I fasten the forward end of my circular clip to the front side of the hame, the forward end for that purpose bending around forward in front of the hame, hame collar and shoulder of the horse, and there secured to the hame by means of a double point at the end of the clip. See drawings Figure 1, O, c, c, n.

The double joint of the clip is composed of a swivel secured to the hame and revolves upon two pivots secured in two single shank staples. See drawings Fig. 1, O, c, c. The staples are firmly fixed in the front part of the hame. Fig. 1, c, c.

The clip, swivel and staples are made of brass, iron or of any other suitable metallic substance.

In the accompanying drawings Fig. 1 represents a perspective view of the hame when completed. Fig. 2, represents sectional views of the main body of the clip A, B, of the swivel C, of the cap forming part of

the clip D, of the small cap for securing the clip in the swivel E, and of the staple F.

The end of the clip a^1 , b^1 , being inserted into the swivel C, at the orifice b^1 , the cap E, a^2 , is then put upon the end of the clip a^1 , when a^1 , is riveted down on the cap E, a^2 , firmly. The swivel C, is then secured to the hame by having its pivots c , c inserted through two staples c , f — c , f , which staples are firmly fixed in the hame by means of their shanks f , f . The cap D, is then secured to the clip A, B, by being placed upon the clip A, B, at g , d , e , e , and secured to the clip by the rivet d , through the orifice h , in the cap D.

The rivets e , e , are used to secure the hame tug to the clip A, B, in the common form, said rivets passing through the cap D at the orifices i , i .

The sectional view F, represents a view of one of the rivets c , f — c , f .

The dotted line k , B, k , in Fig. 2, represents the circumference of the segment made by the motion of the clip A, B, in moving outward and inward to and from the horse upon the pivots c , c , of the swivel C.

The dotted lines l , n, l — l , n, l , in Fig. 1, represent the circumference of the segment of a circle made by the motion of the clip O, n, upward and downward by means of its turning at b^1 , in the orifice of the swivel C, at b^2 , Fig. 2.

What I claim as my invention and desire to secure by Letters Patent is—

The attaching the curved clips to the front sides of the hames by means of double joints so as to render them self adjustable and to keep the draft directly in a line from the point of attachment of the clips to the hames to the point of attachment of the tugs to the whiffletree, in the manner and for the purpose herein set forth.

KASSON FRAZER.

Witnesses:

HICKS WORDEN,
JOHN WATSON.