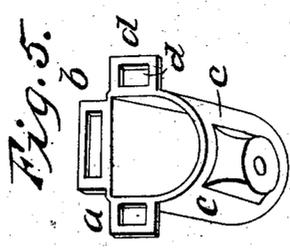
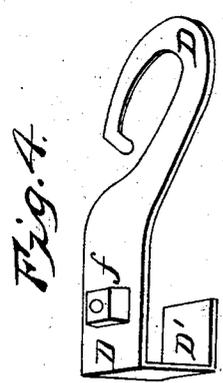
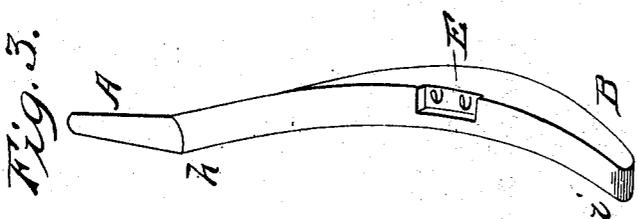
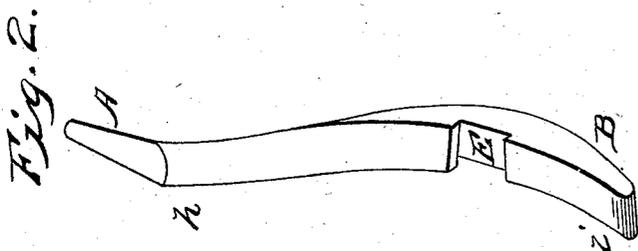
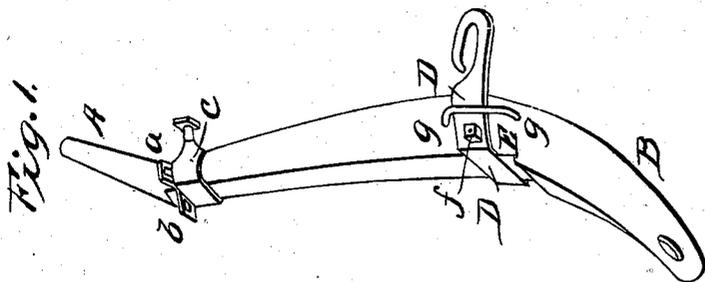


W. DUNCAN.
 HAME FOR HARNESS.

No. 106,341.

Patented Aug. 16, 1870.



Witnesses

Geo. S. [unclear]
Wm. S. [unclear]

Inventor

W. Duncan
 by *C. B. McDonald* his Attorney

United States Patent Office.

WILLIAM DUNCAN, OF SPRING HILL, INDIANA.

Letters Patent No. 106,341, dated August 16, 1870.

IMPROVEMENT IN HAMES FOR HARNESS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM DUNCAN, of Spring Hill, in the county of Decatur and in the State of Indiana, have invented an Improved Hames for Harness; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters and figures of reference marked thereon.

The nature of the invention consists in the construction and use of the hames hereinafter described, said device to be made of wood and iron, or any other suitable and convenient materials.

To enable others skilled in the art to make and use my said invention, I proceed to describe it more fully, as follows:

Figure No. 1 is a view of the device.

A B is a wooden hame.

D D, the trace-hook.

g g, a loop of rod metal.

f, a set-screw.

C, a metal cap or thimble, held in its place by a set-screw.

This hame is hollowed on the inside, the more accurately to fit the collar, as represented by *h i* of Figures 2 and 3.

The hook D D is more fully shown by Figure 4, it being of the shape there represented.

The thimble or cap C is more fully represented by Figure 5.

a and *d* are loops to which the reins may be attached, and *b* a loop to which the hames-string may be attached.

The hook D D is fitted on the hames by means of a notch represented by E, in figs. 1 and 2, or by means of a notch and mortise, as represented by E' *e* of fig. 3. The end D' of the trace-hook D D either

rests in the notch E, on the inside of the hames, or in the mortise *e e* of fig. 3. It is held in its place by a set-screw at *f*, but this screw may be replaced by a spring, wedge, or eccentric.

To use my said device, all the various parts are arranged as represented in said fig. 1. The hames are then put on as usual, the upper hames-string being fastened in the loop *b*, and the lower one in the usual mortise. It will now be found that the curved side *h i* will accurately fit the collar, and thereby avoid any mashing of the collar that might be produced by a straight-sided hame.

If the point of draft is not properly adjusted to the horse's shoulders, the set-screw at *f* may be loosened, and the hook D D slipped, so as to adjust it. The thimble or band C may be also moved so as to suit such an adjustment.

What I claim, and desire to secure by Letters Patent, is—

1. A wooden hame, constructed with the curved inside *h i* and the notch E, substantially as herein set forth.

2. A hame, curved as aforesaid, and constructed with the notch and mortise E' *e e*, substantially as set forth.

3. The combination of the hame A B, the trace-hook D, the loop *g g*, the set-screw *f*, and the cap or thimble C, in manner and form substantially as set forth.

In testimony that I claim the foregoing specification, I have hereunto set my hand this 1st day of February, 1870.

WILLIAM DUNCAN.

Witnesses:

GEO. H. ZIEGLER,
GEORGE REIGER.