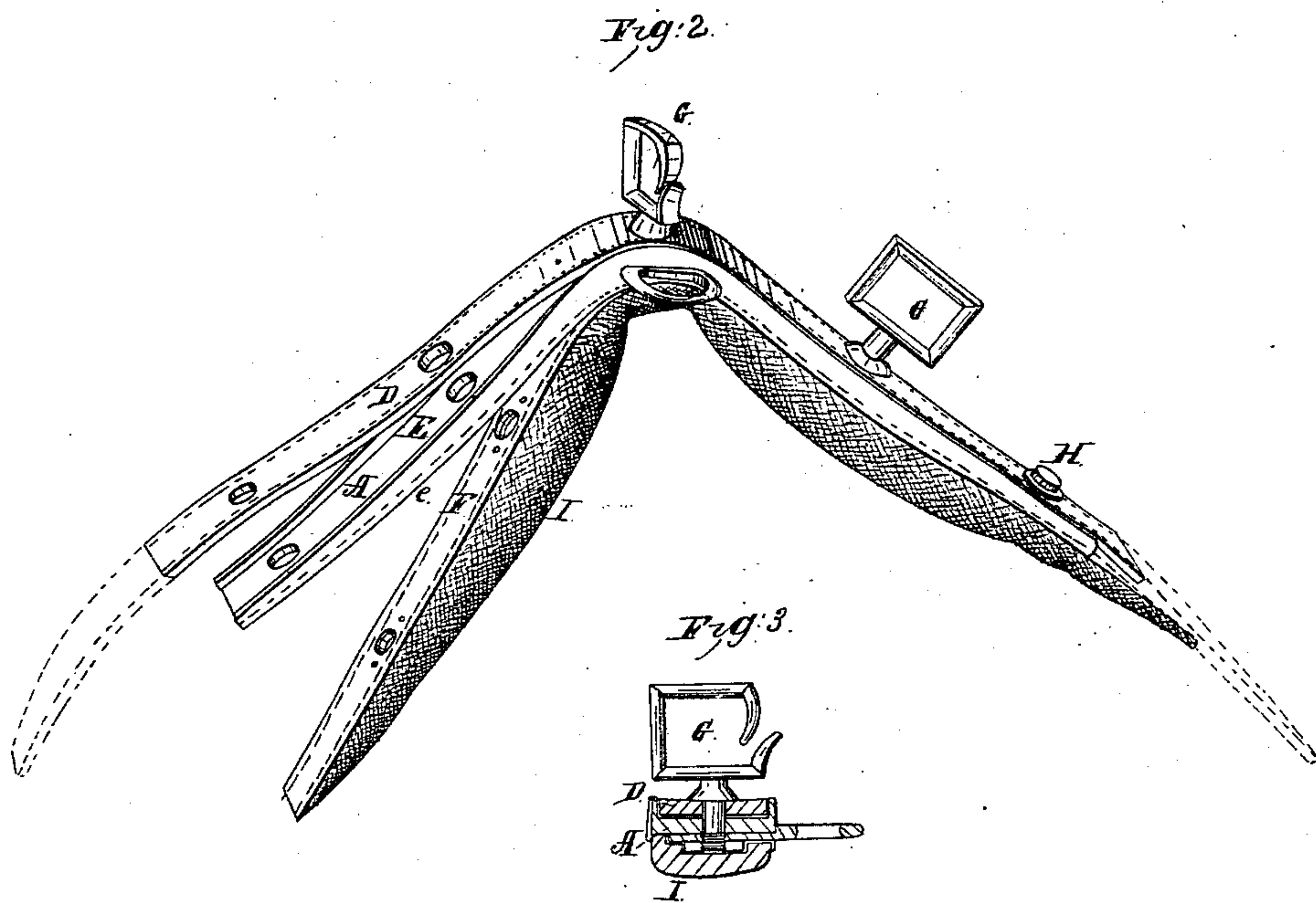
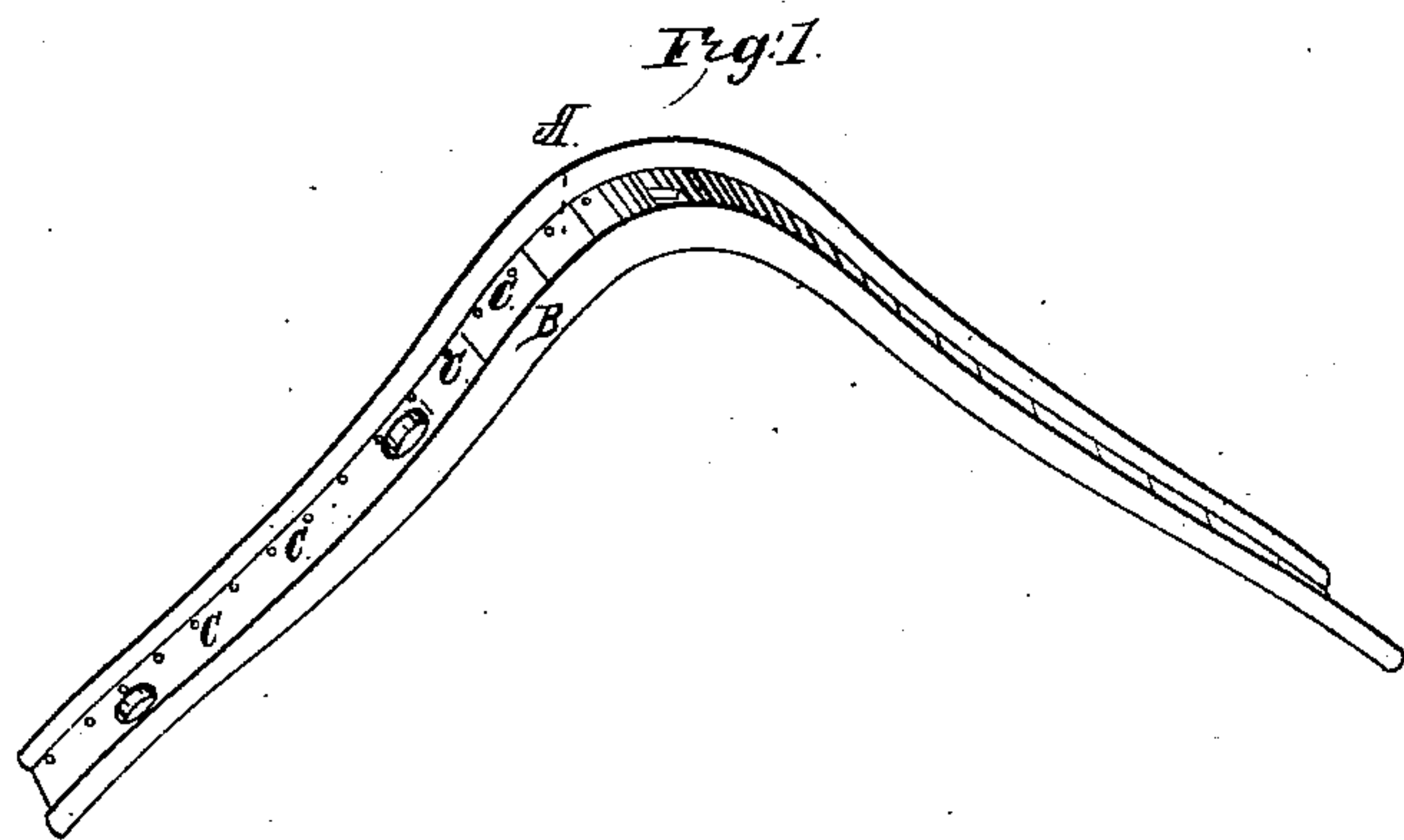


A. Gilliam,
Harness Pad.
N^o 64,215. Patented Apr. 30, 1867.



Witnesses:
H. G. Webb,

Inventor:
Almon Gilliam,
By Knight Bros.
Attorneys.

United States Patent Office.

ALGERNON GILLIAM, OF CINCINNATI, OHIO, ASSIGNOR TO HIMSELF AND
F. AND H. DIEHL, OF THE SAME PLACE.

Letters Patent No. 64,215, dated April 30, 1867.

IMPROVED HARNESS-PADS.

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

TO WHOM IT MAY CONCERN:

Be it known that I, ALGERNON GILLIAM, of Cincinnati, in the county of Hamilton, and State of Ohio, have invented a new and useful Improvement in Harness-Pads; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention relates to certain improvements in the construction of harness-pads, so as to secure economy in manufacture, neatness in appearance, and durability in use. In the accompanying drawings—

Figure 1 represents a pad-tree, of my invention, made of malleable iron or other suitable metal.

Figure 2 represents a harness-pad embodying my improvements.

Figure 3 is a transverse section of the same through its centre.

A is the base of the tree, with side flanges B, which project upward from the base-plate A, just within the flanges B. The plate A is perforated by a series of small holes, C, used for making fast the binding or facing, by which the edges B of the tree are covered. D is the leather pad-cover; E, the flange (or side) facing, machine-stitched at the lower edge e. F is the heavy leather bur-piece, carrying the burs or nuts, into which the terrets G and screws H screw, in the act of fastening the separate parts of the pad together. I is the soft part of the pad, which rests upon the back of the horse.

In making an ordinary harness-pad the metal tree is placed between the covering strip of leather E, and another piece of the same size, being each of them somewhat larger than the tree, in order to allow the stitching by which the tree is retained in place. The edge of these pieces of leather demands facing, and to accomplish this the bur-piece is cut one and one-fourth of an inch wider than the piece of leather D, five-eighths of an inch on each side, and the same is then softened by moisture and turned up in front of the edge of the upper pieces; this is then allowed to get dry and then chamfered off to a proper degree of thinness. When the facing-leather (which is stitched fast to the bur-piece and the under piece of leather I) is brought over the turned-up edge of the bur piece; then it is required to be neatly stitched by hand through the bur-piece, the said stitching of the facing and upper piece D making a large item in the cost of a pad.

In the making of a pad with my tree, the hand stitching-in of the tree between two covering pieces of leather is dispensed with, as also the hand-stitching of the facing. The somewhat difficult operation of trimming or chamfering off of the upturned part of the bur-piece, together with the waste of much heavy and expensive leather, is avoided; also the inconvenience of waiting for the same to dry.

In the ordinary pad, the tree being placed between two pieces of leather, and retained there by the ornamental hand-stitching spoken of, makes the repair of a broken tree an expensive operation, as, at the least, one-half of the stitching must be ripped before the broken tree can be taken out, and, as the fracture of an ordinary tree is of no uncommon occurrence, and as my pad can be taken apart without the destruction of a stitch, it possesses great advantage over ordinary pads in this respect. When it is desired to substitute a new tree for a fractured one, in a pad of my construction, the check-hook J, terrets G, and screws H are unscrewed, when the tree is free to be taken out and a new one substituted—the work of five minutes. It will also be found that owing to the extra strength afforded to my trees by the flanges B, their liability to fracture or even become misshapen will be very small. The firmness of the flange will always keep the leather covering the facing in place, and not allow the corners of the same to be thrown out of place by careless usage.

I claim herein as new, and of my invention—

1. A harness-pad plate or tree of malleable iron or other metal, with an upper flange, B, and lower plane or flat surface, with holes C, as and for the purpose stated.

2. I claim, as a new article of manufacture, a harness-pad, with a tree consisting of the elements A, B, and C, in combination with the pieces D, E, and F, substantially as described.

In testimony of which invention I hereunto set my hand.

ALGERNON GILLIAM.

Witnesses:

EDWARD H. KNIGHT,
JAMES H. LAYMAN.