(No Model.)

# C. F. BUSTIN.

## SADDLE TREE.

No. 408,577. Patented Aug. 6, 1889.

*Fig. 1.*

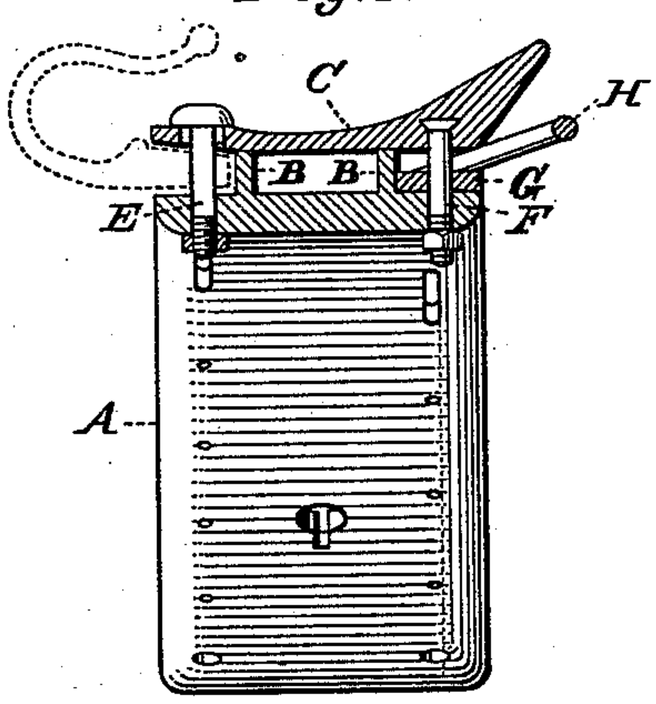



*Fig. 3.*

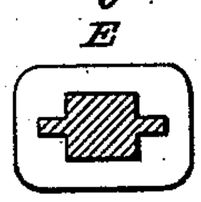



*Fig. 4*

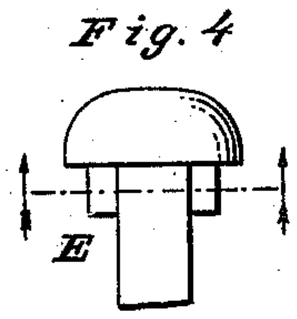
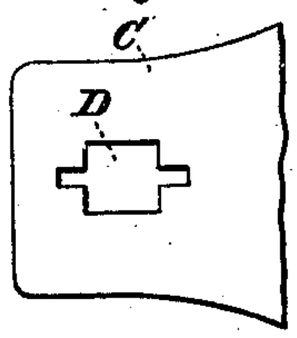



*Fig. 2.*




*Fig. 5.*




*WITNESSES*

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# UNITED STATES PATENT OFFICE.

CHARLES F. BUSTIN, OF BOSTON, MASSACHUSETTS.

## SADDLE-TREE.

SPECIFICATION forming part of Letters Patent No. 408,577, dated August 6, 1889.

Application filed August 25, 1888. Renewed May 23, 1889. Serial No. 311,883. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES F. BUSTIN, a citizen of the United States, a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Saddle-Trees; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention and is a vertical section. Fig. 2 is a perspective view. Figs. 3, 4, and 5 are details.

The invention relates to improvements in saddle-trees for harness; and it consists in the novel construction and combination of parts as hereinafter set forth.

The object of the invention is to provide a light and serviceable saddle-tree.

Referring to the drawings, A designates the saddle-tree having the parallel longitudinal strengthening-ribs B integral therewith and having the several openings through it for the passage of thread, bolts, &c., for securing the covering and lining.

The tree and ribs I design to make of wood pulp, paper-pulp, or other indurated fiber, which after being pressed or molded into shape may be varnished or otherwise protected by an impervious coating.

C is the check-seat, also of pulp, having the cruciform opening D therein, forming a seat for the bolt E, which holds the check-hook. The bolt E is made square in cross-section and has near its head the lateral lugs *a*, designed to enter the small portions of the cruciform opening. By this construction the check-bolt is held firmly in place. A fixture-bolt F, near the rear end of the check-seat and embedded therein, passes downwardly through the metal brace-plate G and the saddle-tree, as shown, and has its threaded end provided with a nut. The plate G is curved over the ridge of the saddle and is designed to give strength thereto, the projecting flange at the ends to receive and hold the skirts in place. The metal loop H on the plate G is provided for the reception of the usual back-strap of the harness.

Having described my invention, what I claim is—

The combination of the saddle-tree for harness, composed of pulp, the pulp check-seat having embedded therein a bolt, and the cruciform opening, the bolt square in cross-section and having the lateral lugs, and the curved plate having the loop and flange, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES F. BUSTIN.

Witnesses:
JAMES D. COLT,
BENJ. E. BATES.