

(Model.)

S. R. COPELAND.
Hame-Tug.

No. 227,490.

Patented May 11, 1880.

Fig. 1

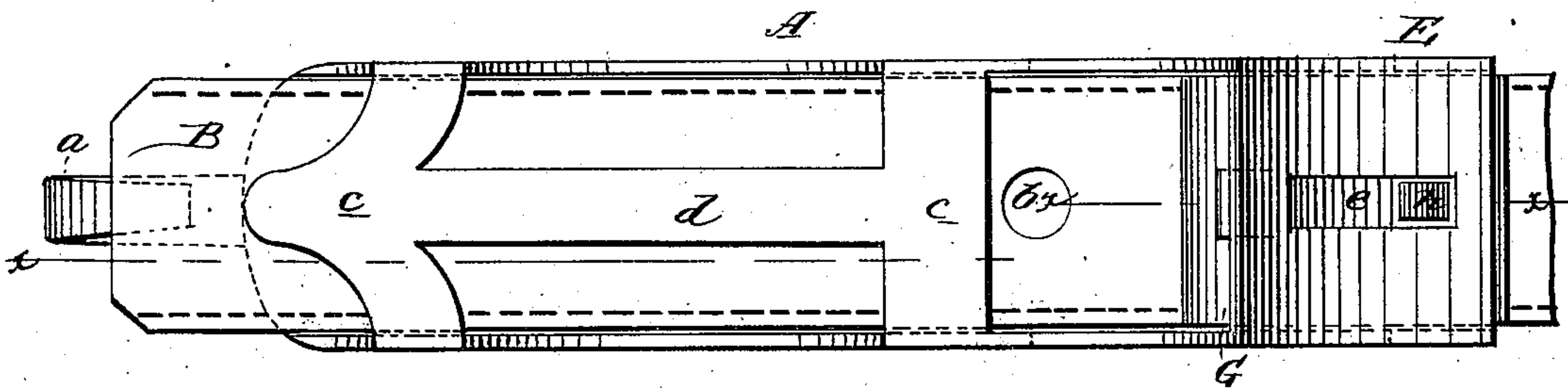
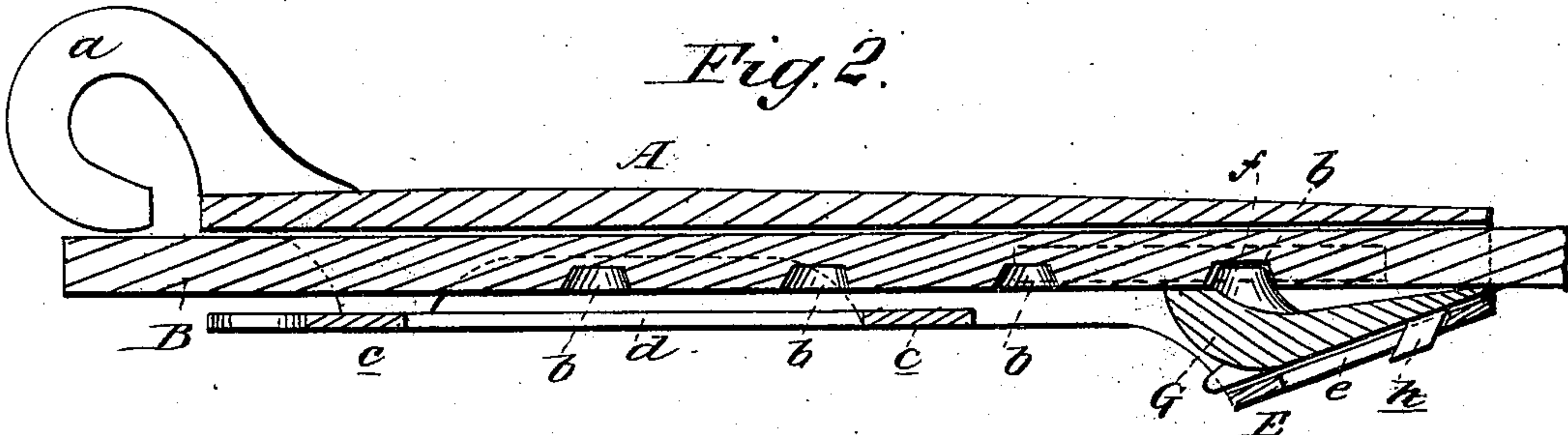


Fig. 2



WITNESSES:

Francis McArthur,
C. Sedgwick

INVENTOR:

S. R. Copeland
BY *M. H. Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

SAMUEL R. COPELAND, OF ARMSTRONG, ILLINOIS, ASSIGNOR TO HIMSELF,
JOHN A. LITTLER, AND CALVIN LAMB, OF SAME PLACE.

HAME-TUG.

SPECIFICATION forming part of Letters Patent No. 227,490, dated May 11, 1880.

Application filed March 18, 1880. (Model.)

To all whom it may concern:

Be it known that I, SAMUEL RUDOLPH COPELAND, of Armstrong, in the county of Vermilion and State of Illinois, have invented a new and useful Improvement in Hame-Tugs, of which the following is a specification.

This invention consists in a novel construction and combination, with the trace or tug, of a metallic skeleton frame or keeper, provided with means for holding the trace securely in place and for adjusting it at pleasure to suit different animals.

In the accompanying drawings, Figure 1 is a face view of my invention, and Fig. 2 is a longitudinal section taken in the line *xx* of Fig. 1.

Similar letters of reference indicate corresponding parts.

A represents a metallic frame or box having a solid back and a skeleton face and sides. It is of a width and depth sufficient to inclose the front portion of the trace B, and of a length sufficient to take in a number of the buckle-holes in said trace.

At the front end of the frame is a hook, *a*, for engagement with the hook or staple of the hame, and at the rear end is a buckle of peculiar construction. Between the hook *a* and the buckle the frame is intended to be curved in such form as to avoid chafing of the side or shoulder of the animal by contact therewith.

The skeleton face or front of the frame comprises two transverse bars, *c c*, connected by a longitudinal bar, *d*, which three parts occupy the middle and front portion of the frame, and a plate, E, occupying the rear portion. The three first-mentioned parts serve as a keeper for the front end of the tug, and the last-mentioned part forms a portion of the buckle, and all four may be made in one piece with the sides and back of the frame A.

The plate E is inclined at such an angle that the space between its inner surface and that of the back of the frame is tapering from front to rear. In this tapering space works a wedge-shaped block, G, which has on its inner side a pin or stud, *f*, for engagement with the buckle-holes *b* in the trace, and on its outer side a pin or projection, *h*, which works in a slot, *e*, in the plate E.

The trace B works in the frame A, with the wedge G in the space beneath the plate E. The stud *f* takes the place of a buckle-tongue, and the projection *h* and slotted plate E perform the service of a buckle frame or loop. When it is desired to change the stud *f* from one hole, *b*, to another the trace is pushed forward, carrying with it the wedge G, far enough to allow the stud to be disengaged from one hole and engaged with another, and the trace is then moved back to the former position, as shown.

The projection *h* serves to guide the wedge and prevent it from becoming displaced.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The skeleton-frame A, provided with the hook *a*, and having on its face the keeper-bars *c d c* and buckle-plate E, as shown and described, for the purpose specified.

2. The plate E, having the slot *e*, and the wedge G, having the pins or projections *f* and *h*, in combination with the frame A, all adapted to engage with trace B, as shown and described, for the purpose specified.

SAMUEL RUDOLPH COPELAND.

Witnesses:

J. E. P. BUTZ,
F. W. PARRISH.