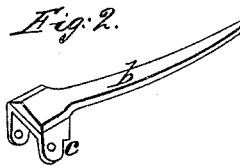
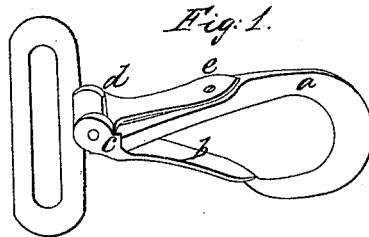


C. H. Palmer,

Snap Hook.

N^o 45,299.

Patented Nov. 29, 1864.



Witnesses:
Mrs. A. Lindsay
Chas. H. Kinner

Inventor:
Charles H. Palmer

UNITED STATES PATENT OFFICE.

CHARLES H. PALMER, OF NEWARK, NEW JERSEY, ASSIGNOR TO GEORGE EDWARDS, OF SAME PLACE.

HARNESS-SNAPS.

Specification forming part of Letters Patent No. **45,299**, dated November 29, 1864; antedated November 16, 1864.

To all whom it may concern:

Be it known that I, CHARLES H. PALMER, of the city of Newark, in the county of Essex and State of New Jersey, have invented certain Improvements in Harness-Snaps; and I do hereby declare the following to be a full and exact description of the same, reference being herein had to the drawings accompanying this specification, and which make part of the same.

The nature of my improvement consists in a peculiar form of the tongue of the snap and in the manner of combining the spring therewith.

In the drawings, Figure 1 shows a snap complete; Fig. 2, the tongue, and Fig. 3 the spring.

Instead of a mortise in the main stem *a* and a tenon on the tongue *b*, in which manner tongues are commonly affixed to the stems in harness-snaps, the tongue *b* is made to clasp the outside of the stem, thereby keeping the tongue more securely in its right position and obtaining two points of bearing, *c* and *d*, for

the spring upon the tongue. The spring is affixed to the outside of the snap at *e* and bears upon the tongue below the part on which the tongue moves. The leverage thus obtained and applied reduces the motion of the spring, making it much less than when a spring is fastened to the inside of the tongue in the ordinary way and therefore the spring will last much longer, and at the same time it effectually holds the tongue closed. The spring is made to project down between the cheek-pieces of the tongue, as shown at *f*, Fig. 3, while the bearing is by the two points *g* and *h* of the spring on the tongue.

What I claim and desire to secure is—

The tongue constructed as described, and the combination of the spring therewith, in the manner and for the purpose set forth.

CHARLES H. PALMER.

Witnesses:

MORRIS B. LINDSLEY,
CHAS. C. SKINNER.