

(No Model.)

G. E. MERRIMAN.

DIE PRESS.

No. 282,747.

Patented Aug. 7, 1883.

Fig. 1

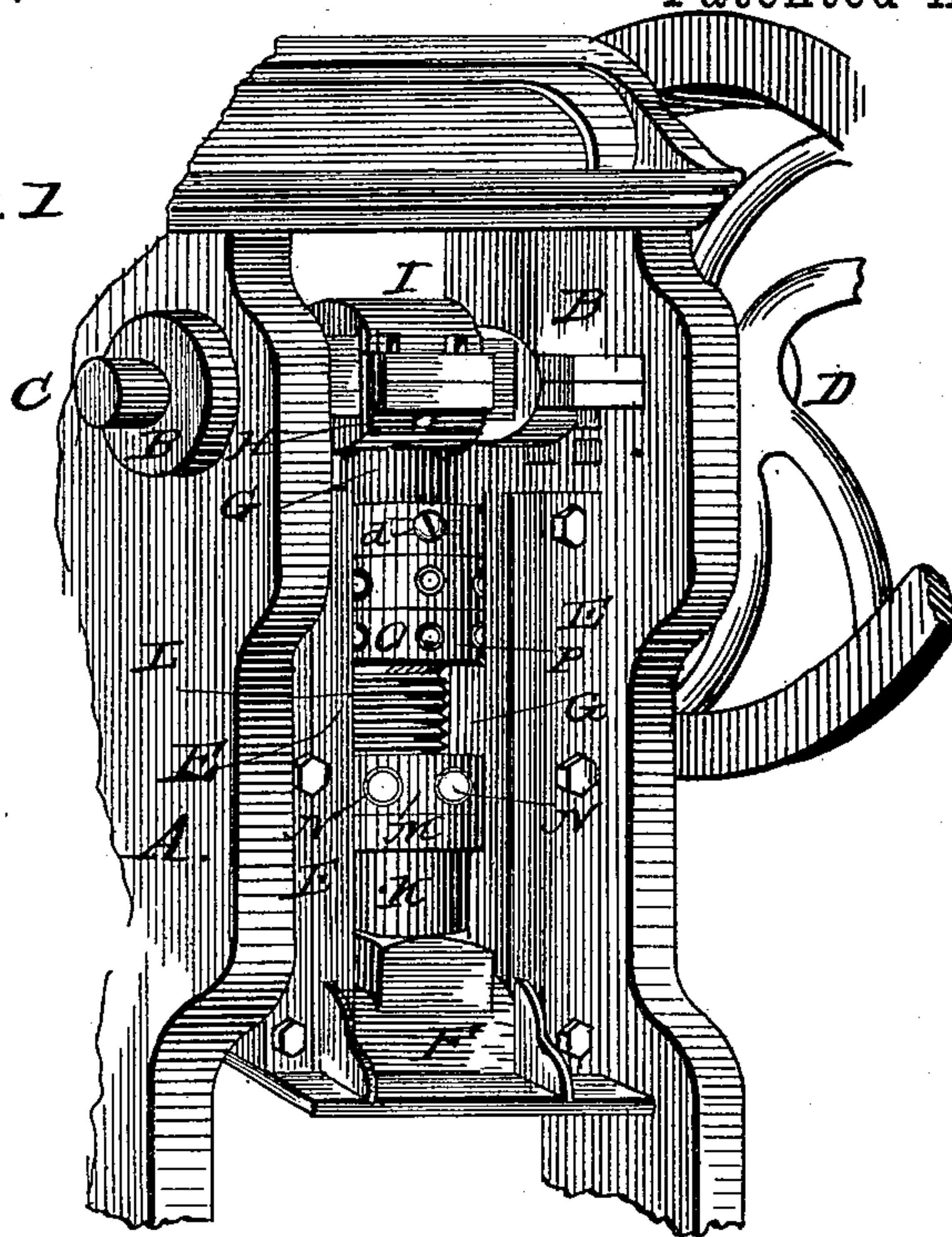
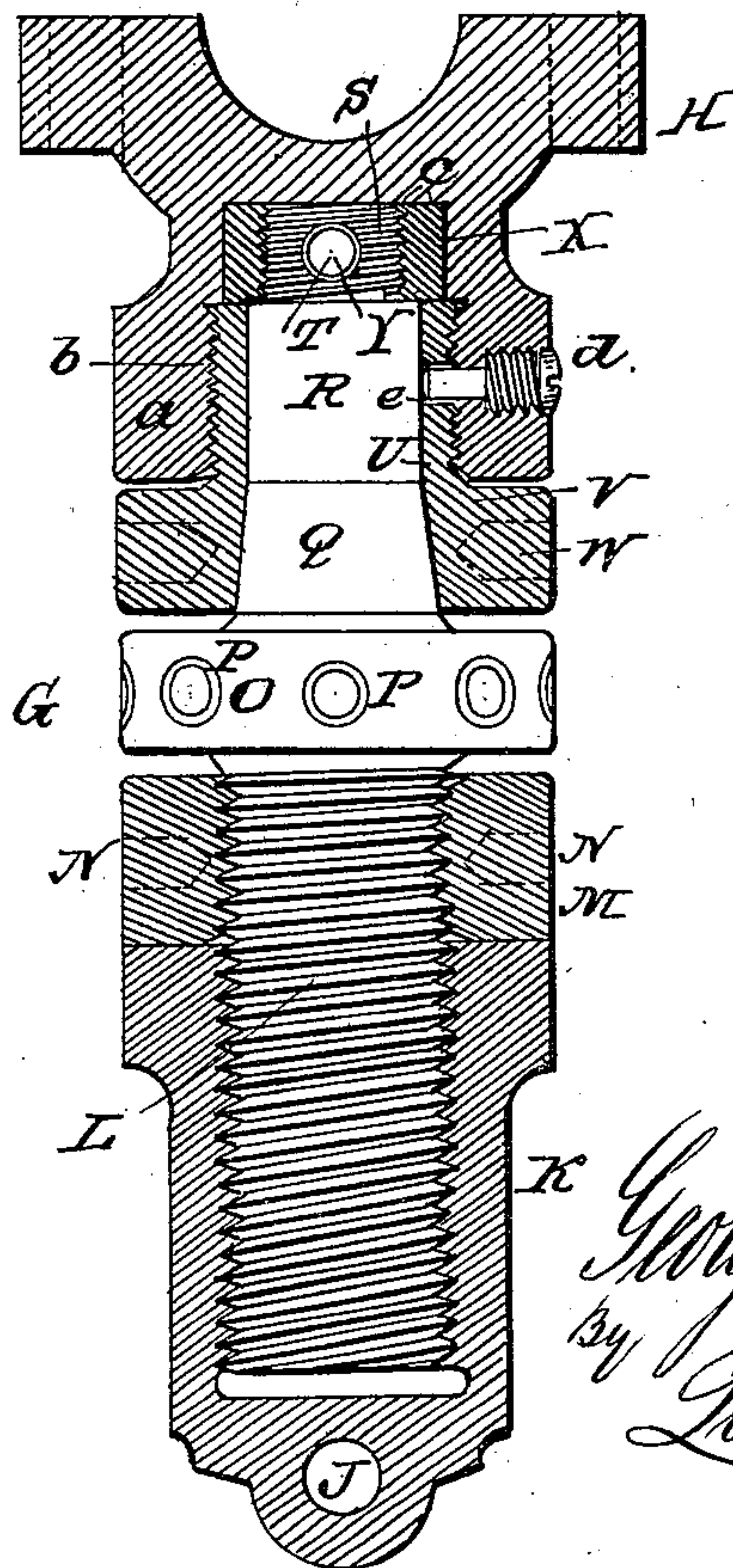


Fig. 2.



WITNESSES:

Fred. G. Dietrich
Wm. Lecher

George E. Merriman
INVENTOR,
Louis Bagger & Co.
ATTORNEYS

UNITED STATES PATENT OFFICE.

GEORGE E. MERRIMAN, OF TERRYVILLE, CONNECTICUT.

DIE-PRESS.

SPECIFICATION forming part of Letters Patent No. 282,747, dated August 7, 1883.

Application filed April 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. MERRIMAN, of Terryville, in the county of Litchfield and State of Connecticut, have invented certain new and useful Improvements in Presses for Metal-Working; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of a portion of a press used in the manufacture of sheet-metal ware provided with my improvement, and Fig. 2 is a longitudinal sectional view of the adjustable pitman.

Similar letters of reference indicate corresponding parts in both the figures.

My invention has relation to presses for manufacturing sheet-metal ware; and it consists in the improved construction and combination of parts of an adjustable plunger-operating pitman adapted to be used in drawing-presses, or cutting, punching, or shearing presses, or any other press in which adjustment of the plunger or platen is desired, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates a portion of the frame-work of a press, forming bearings B at its upper end for the reception of a transverse crank-shaft, C, having fly-wheel D, and forming vertical guides or ways E, in which the plunger F slides.

G is the adjustable pitman, which is hinged by means of a cross-head, H, and cap I to the crank at its upper end, and at its lower end to the plunger by means of a bolt passing through perforated lugs or plates upon the upper side of the plunger and through a transverse bore, J, in the end of the pitman.

The lower portion of the pitman consists of a female-threaded socket, K, in which turns the adjusting-screw L, which is held in place, when adjusted, by means of a locking-nut, M, turning upon the screw and bearing against the upper edge of the socket. This locking-nut is provided in its outer rim with a series of holes, N, adapted to receive the end of an iron bar, serving as handle when turning the nut, and the adjusting-screw has an annular head, O, above the screw-threaded portion,

which turns in the socket and locking-nut, which head is provided with a similar series of perforations, P, in its face. Above the head O the screw forms a conical portion, Q, which is continued by a cylindrical portion, R, above the same, which ends in a screw-threaded portion, S, smaller in diameter than the cylindrical part, and having a transverse perforation, T.

A sleeve, U, having an annular flange, V, at its lower edge and screw-threaded upon the outside, fits over the conical and cylindrical upper portions of screw L, and the outer rim of the flange V is provided with a series of sockets, W, similar to those in the locking-nut and in the screw-head. A small nut, X, cylindrical upon its outside, is screwed upon the upper screw-threaded end, S, of screw L, resting with its lower edge upon the upper edge of sleeve U, and is held in place by a pin, Y, passing through perforations Z in the nut, registering with perforation T in the screw. The upper end of the adjusting-screw, with sleeve U and nut X, is inserted into a socket, a, projecting from the cross-head H, and is screw-threaded at its outer portion, b, fitting over the threaded portion of sleeve U, while its inner portion forms a smooth cylindrical recess, C, in which nut X fits and turns. A short screw, d, smooth at its inner end, passes through the side of socket a, and projects with its smooth end into a short transverse slot, e, in the screw-threaded portion of sleeve U, preventing said sleeve from turning more than a small fraction of a revolution.

It will now be seen that when it is desired to adjust the pitman the locking-nut M is loosened and sleeve U unscrewed slightly, which will allow the nut X to turn in its recess, and the entire adjusting-screw with it. When the latter has been adjusted, the locking-nut is screwed down tight against the upper edge of the lower socket, and sleeve U is screwed up hard against nut X, which presses it and the end of the adjusting-screw up against the top of recess c, preventing it from turning, and thus holding it in its adjusted position.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination of the adjusting-screw L, having lower screw-threaded portion and upper smooth portion, Q R, and annular head

or nut X at its upper end, socket K, socket *a*,
female-screw-threaded at its lower portion, *b*,
and forming upper cylindrical recess, *c*, and
locking-sleeve U, fitting upon the upper por-
5 tion of the adjusting-screw, screw-threaded on
the outside and turning in the screw-threaded
part of socket *a*, and bearing with its upper
edge against nut or head X, as and for the
purpose shown and set forth.

10 2. The combination of the lower screw-
threaded socket K, adjusting-screw L, having
head O, conical portion Q, cylindrical portion
R, and screw-threaded end S, having perfora-
tion T, cylindrical nut X, having perforation

Z, pin Y, locking-nut M, cross-head H, form- 15
ing socket *a*, having female-threaded outer
portion, *b*, and cylindrical recess *c*, male-
threaded locking-sleeve U, having flange V
and slot *e*, and screw *d*, as and for the purpose
shown and set forth. 20

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in
presence of two witnesses.

GEORGE E. MERRIMAN.

Witnesses:

N. TAYLOR BALDWIN,
GEORGE N. WATERBURY.