(No Model.)

# E. HIATT.

## POST DRIVER.

No. 293,021. Patented Feb. 5, 1884.

Fig. 1.

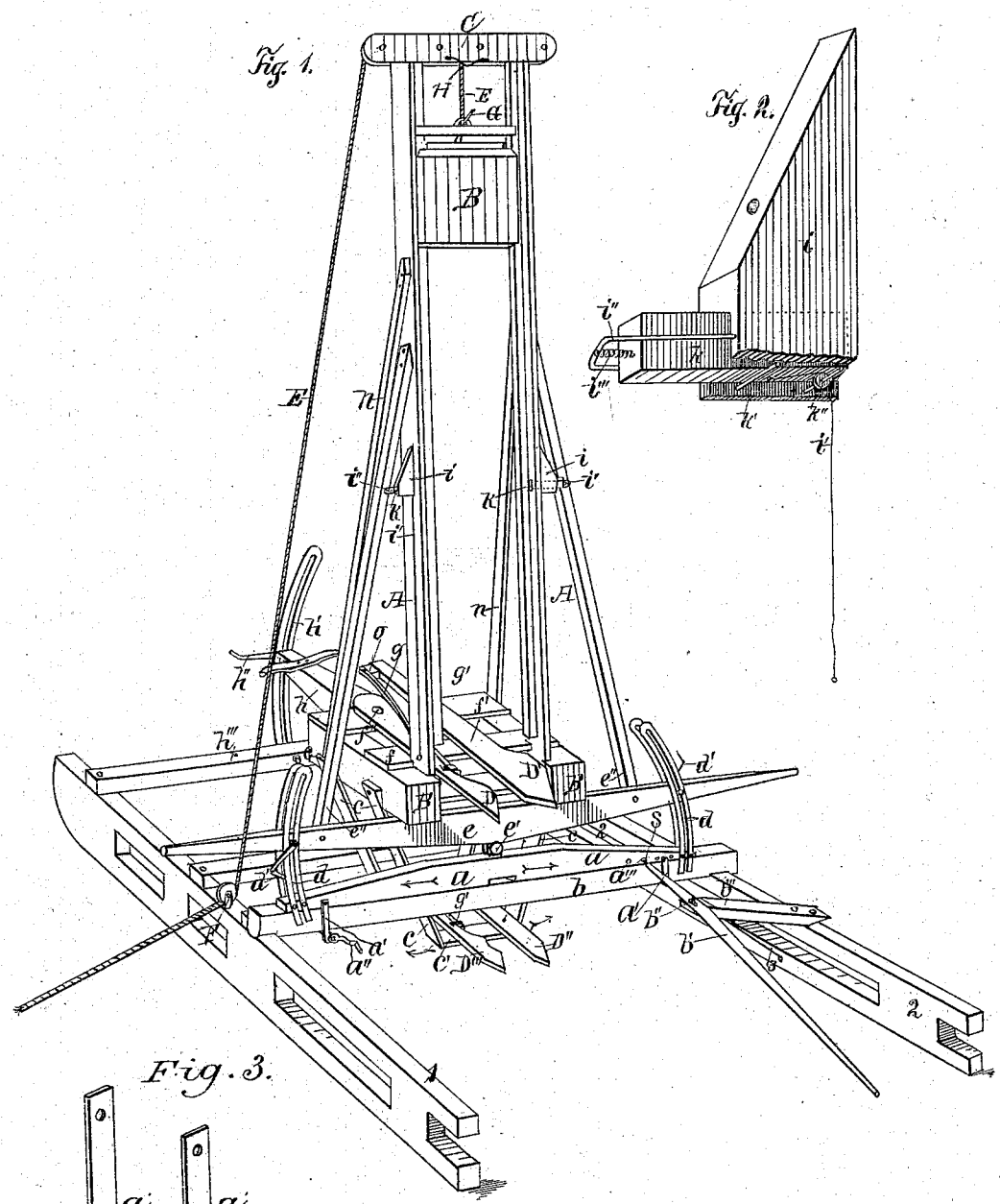
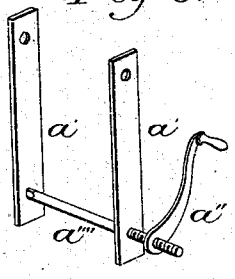


Fig. 2.



Fig. 3.



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# UNITED STATES PATENT OFFICE.

EDWIN HIATT, OF NEW CASTLE, INDIANA.

## POST-DRIVER.

SPECIFICATION forming part of Letters Patent No. 293,021, dated February 5, 1884.

Application filed September 28, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, EDWIN HIATT, a citizen of the United States, residing at New Castle, in the county of Henry and State of Indiana, have invented certain new and useful Improvements in Post-Drivers, of which the following is a specification.

My invention relates to improvements on my original machine for which an application for a patent was filed in the Patent Office on or about May 16, 1883; and my invention consists in providing an improved hammer-rest and constructing the base of the machine so that it can be adjusted sidewise.

The objects of my invention are, first, to provide a sidewise adjustment for post-drivers; and, second, to construct a simple and substantial hammer-rest. I attain these objects by the mechanism illustrated by the accompanying drawings, in which—

Figure 1 is a perspective view of a post-driver embodying my invention. Fig. 2 is a view of the hammer-rest. Fig. 3 is a view of the axle-clamps.

Similar letters refer to similar parts throughout the several views.

The axle *b* is secured on the runners 1 2, and the said runners are also secured together by the cross-bars *h''' h''''*.

On the axle *b* is placed the sliding bar *a*, which is movably secured to the axle by clamps *a'*, passing under it, and by the lower ends of the arms *d*, all as shown in Fig. 1.

To one of the clamps *a'* is secured a crank, *a''*, for holding the bar *a* from moving when desired, as shown in Fig. 3.

Just back of the axle the arm *b'''* is secured to the runner 2 and braced by the brace 3, all as shown. A stud, *b''*, is secured in the end of the said arm, and on which the lever *b'* rests. The said lever is made tapering each way from the slot in which the stud works, and the forward end is provided with a metallic point, *s*, which engages in the holes *a'''* in the bar *a*, all as shown. The bolster *e* is secured on the bearing *e'* and adjustably held on each side by the clamps *d d'*, all of which are shown and described in my first application. The foot-bars B are secured at one end to the bolster *e*, and extend forward a few feet. Between the front ends of the two bars the front lever, *h*, is secured, the front end of which is held by a clamp-screw, *h' h''*, as shown. The clamp-posts *c* are secured on one side of each of the bars B, and extend downward and inward, as shown. To the lower ends of the said posts the cross-bars *c'* are secured, and on these cross-bars the clamps D'' D''' rest and are made to operate. The clamp D'' is made stationary to the bars *c'*, and the clamp D''' is pivoted at its front end and made to clamp to a post by the spring *g g'*. (Better shown in the upper clamps.)

On the upper cross-bars, *f f'*, are two clamps, D D', one of which is pivoted to the bar *f* at *f''* and provided with a wooden spring, *g*, all the same as the lower clamps. The uprights A are secured to the foot-bars B and braced on each side by braces *e''*, *e'''*, and *n n*. At about the center of the said uprights the hammer-rests *i* are secured. The said hammer-rests consist of a block, *i*, with a slot cut in its lower edge. In this slot is placed the rest *k*, which slides on the pin *k'* and cord-wheel *k''*, as shown in Fig. 2. The rests *k* are provided with a spring, *i'''*, secured at one end to the rod *i''*, so that the rest will not project through the uprights only when required. The upper ends of the uprights are secured together by the bars C, between which four pulleys work, and the rope E, hammer B, and trip mechanism H G are all shown and described in my former application.

To operate my machine, it is drawn on the line of the fence. A post is placed between the clamps D D' D'' D''' and made to stand perpendicular by adjusting the levers *h e''''* and clamps *h'' d d'*. Then, if the post is not in line, the clamp-screw *a' a''* is loosened, and by moving the lever *b'* in the desired direction the bar *a* slides, as indicated by the arrows, and the post may be brought to line readily. The screw *a''* is then tightened and the hammer raised (by hand or horse power) and let drop on the post as often as desired. When it is necessary to hold the hammer off of the post, the cords *i'* are pulled down, causing the rests *k* to project through the frame A, and the weight of the hammer holds them out, preventing it from coming down. When the hammer is raised up the springs pull the rests *k* back out of the way.

Having thus described my invention, I claim the following and desire to secure the same by Letters Patent:

1. In a post-driver, the sliding bar *a*, adjustably secured to the axle *b* by clamps *a'*, and made to slide sidewise by the lever *b'*, working in holes *a'''*, and resting on the arm *b'''*, and pin *b''*, all for the purpose set forth.

2. In a post-driver, the uprights A, having hammer-rests *i*, bearings *k' k''*, rest *k*, spring *i'''*, rod *i''*, and cord *i'*, all for the purpose set forth.

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Witnesses:
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