

(No Model.)

J. A. HESS.

CUTTER OR TRIMMER FOR WOOD, LEATHER, &c.

No. 527,604.

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WITNESSES:

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CUTTER OR TRIMMER FOR WOOD, LEATHER, &c.

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To all whom it may concern:

Be it known that I, JOHN A. HESS, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Cutters or Trimmers for Wood, &c., which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a cutter or trimmer for wood, &c., formed of a knife or blade to which rotary and traversing motions may be imparted by means substantially as hereinafter set forth and pointed out in the claims.

It also consists of means for adjusting the knife or blade and setting it true in position.

It further consists in providing the device with a gage which may be adjusted in longitudinal and transverse positions, as will be hereinafter set forth.

Figure 1 represents a vertical section of a cutter or trimmer embodying my invention. Fig. 2 represents a top or plan view thereof. Fig. 3 represents a front view thereof.

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

Referring to the drawings: A designates a bed or base, from the front side of which rises the horizontally-arranged rack B, with which meshes the pinion C, whose arbor or shaft D passes freely through a traveler E, which is guided at bottom in the recess F in the bed A, and at top in the recess G in the bar H, which latter is supported on the standards J, which are connected with said bed, it being noticed that the traveler is somewhat of conical form, and its top is provided with a tongue K, shown partly in full and partly in dotted lines Fig. 3, the same freely entering the recess G, so as to prevent rotation of the traveler while readily permitting the same to move to the right and left, and vice-versa, in the recesses F and G.

The rear face of the traveler is recessed and occupied by the head L, to which the circular blade or cutter M is screwed or otherwise connected, said head and cutter being fitted on the inner end of the arbor D, and secured thereto by means of the screw N, which passes through the washer P into said arbor, and the screws Q which pass through

the head E and tighten against the back of the head L, said screws N and Q also serving to adjust and set the cutter N true on the arbor D.

Secured to the front end of the arbor, is a toothed wheel R with which is adapted to engage the dog or pawl S, which is hung on the crank arm T, the latter being freely mounted on the arbor D, and having at its upper end the handle U, below which is the limb V of the dog S, so that said limb and handle may be grasped, whereby the dog may be engaged with the wheel R, and the arm T turned to the right and left, thus rotating said wheel and consequently the pinion C, whereby the latter rides over the rack B, and the cutter is rotated and caused to traverse the bed A.

Interposed between the handle U and limb V is a spring W for raising the dog S and clearing it of the wheel R.

In the bed is a longitudinally-extending groove X, which receives the heads of bolts Y, the latter passing through transverse slots Z in the plates A', which rest on the bed and are formed with or attached to gages B' which rise from the bed and serve to form abutments for the material to be cut or trimmed while resting on the bed A, as shown at C' in dotted lines Fig. 2. On the upper ends of the bolts are nuts D', for tightening the plates on the bed, it being evident that the gages B' may be adjusted in longitudinal directions, owing to the slots Z and groove X. The heads of the bolts and the walls of the groove X are of dovetailed form, so that said heads are prevented from vertical displacement.

It will be seen that when the handle U is grasped, and with it the limb V, the dog is lowered, whereby the arm T is coupled with the wheel R. The arm may now be swung to the right or left, and as the pinion rides on the rack, the traveler is carried with it, as is also the cutter, the latter likewise rotating and being directed against the article to be cut or trimmed, the effect of which is evident. After the cutter has made a partial rotation, the dog is let go, and the arm turned back, and the dog again lowered, so as to take a fresh hold of the wheel R, and thus the cutter may be made to traverse the entire length

of the bed in either direction of the same, so as to be operative to right or left as desired, or required.

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

1. A cutter or trimmer for the purpose named, consisting of a base having on its front a rack, a bar connected with standards on said base, a traveler horizontally movable and guided in recesses in said base and bar, a rotary shaft mounted in said traveler, and carrying a pinion meshing with said rack, an adjustable head secured on said shaft within a recess in said traveler, a cutter secured to said head, said parts being combined substantially as described.

2. A cutter or trimmer for the purpose named, consisting of a base, a horizontal rack secured to the front of said base, a bar secured by standards to said base, a traveler having a tongue in a recess in said bar, a shaft mounted in said traveler and having a pinion thereon meshing with said rack, a head on said shaft within a recess in said traveler, a securing screw and washer for said head, adjusting screws in said traveler for said head, and a handle loosely mounted on the shaft and having a spring controlled pawl adapted

to engage a ratchet wheel on said shaft, said parts being combined substantially as described.

3. A cutter for the purpose named, consisting of a base with a rack, a traveler guided on said base, a shaft mounted in said traveler and carrying a pinion meshing with said rack, an adjustable head with a cutter connected with said shaft, a gage adjustably secured to said base, and a handle with spring pawl engaging a gear wheel on said shaft, said parts being combined substantially as described.

4. A cutter for the purpose named, consisting of the bed A having thereon the horizontal rack B, and formed with the recess F, the standards J on said bed, the cross bar H connecting said standards, having the recess G therein, the sliding traveler E guided in said recesses G and F, a shaft mounted in said traveler, a pinion C mounted on said shaft and meshing with said rack, the head L connected with said shaft within the recessed rear face of said traveler, and a blade connected with said head, said parts being combined substantially as described.

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Witnesses:

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