

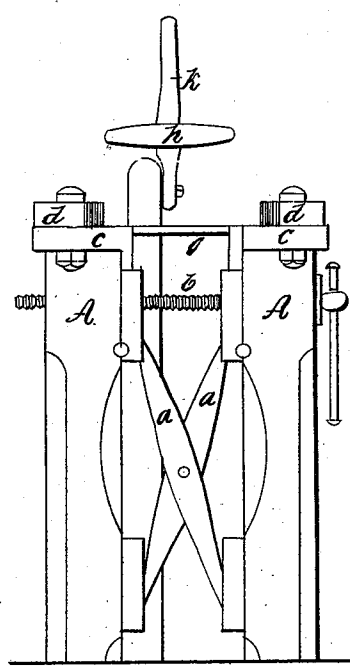
*H. Culrer,*

*Unsetting Tires.*

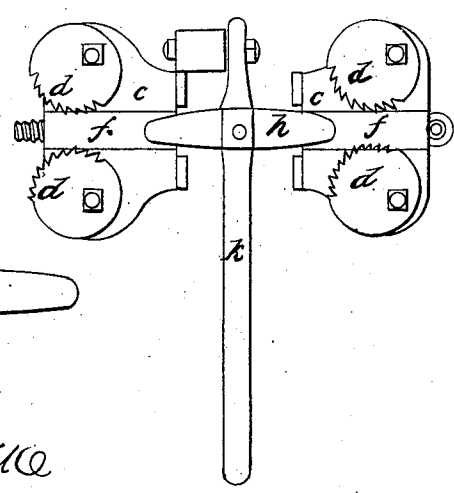
*No 85,215.*

*Patented Dec. 22, 1868.*

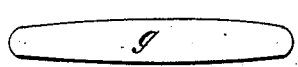
*Fig. 1*



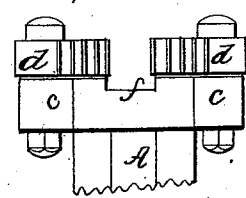
*Fig. 2*



*Fig. 4*



*Fig. 3*



*Witnesses:*  
*J. P. Dake*  
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*Inventor:*  
*H. Culrer*  
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*- attys -*



HIRAM CULVER, OF DANSVILLE, NEW YORK.

Letters Patent No. 85,215, dated December 22, 1868.

IMPROVED UPSETTING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, HIRAM CULVER, of Dansville, in the county of Livingston, and State of New York, have invented a certain new and useful Improvement in Upsetting-Machines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is an elevation.

Figure 2, a plan.

Figures 2 and 3, detail views.

Like letters of reference indicate corresponding parts in all the figures.

My invention consists in a machine in the form of a vise, the jaws or posts of which carry pairs of eccentrics, that hold the metal under action, a loose bar forming the bed upon which the article rests, and a follower attached to a hand-lever holding the article down.

In the drawings, A A indicate the jaws or posts, being connected by toggle-arms *a a*, and moved in and out by hand-screw *b*, in the same manner as wood vises.

On top of each jaw is a bed-plate, *c*, carrying a pair of eccentric-rollers or cams, *d d*, situated at such a distance apart as to allow the article to be acted upon, to be placed between them. The contiguous sides of each pair of rollers that hold upon the article inserted, are preferably ratcheted or cut with teeth, as shown.

The bed-plates *c c* are provided with longitudinal grooves *f f*, in which rests a loose bar, *g*, of steel or iron, extending across from side to side, and sustaining the article that is being upset, and preventing it from bending out of shape.

A follower, *h*, is also made to rest on top the article,

for the same purpose, being attached to a hand-lever, *k*, pivoted to the frame, and in convenient position for being held in the hand.

The operation will be readily understood. The article to be upset is placed upon bar *g*, and between the pairs of rollers *d d d d*. The follower *h* is brought down on top the article, and the jaws or posts of the device are then screwed together to set up the metal.

The special novelty in the case, consists in the combination of the loose bar *g* and follower *h* with the bed-plates *c c* and eccentrics *d d*.

The bar and follower hold the iron fast between them, to prevent it from spreading out, while the eccentrics apply the necessary pressure, under the action of the screw. It will be noticed that the bar, resting loosely in grooves *f f*, allows the closing up of the jaws without offering any obstruction, and under pressure it cannot be misplaced.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the loose bar *g*, lever-presser *k h*, eccentrics *d d d d*, and bed-plates *c*, with the jaws A A, all arranged and operating substantially as herein described.

2. The upsetting-machine, consisting of the jaws A, levers *a*, screw *b*, loose bar *g*, eccentrics *d*, lever-presser *k h*, and bed-plates *c*, all constructed and arranged to operate substantially as herein set forth.

In witness whereof, I have hereunto signed my name, in the presence of two subscribing witnesses.

HIRAM CULVER.

Witnesses:

JNO. H. VAN DERLIP,  
JAMES FAULKNER, Jr.