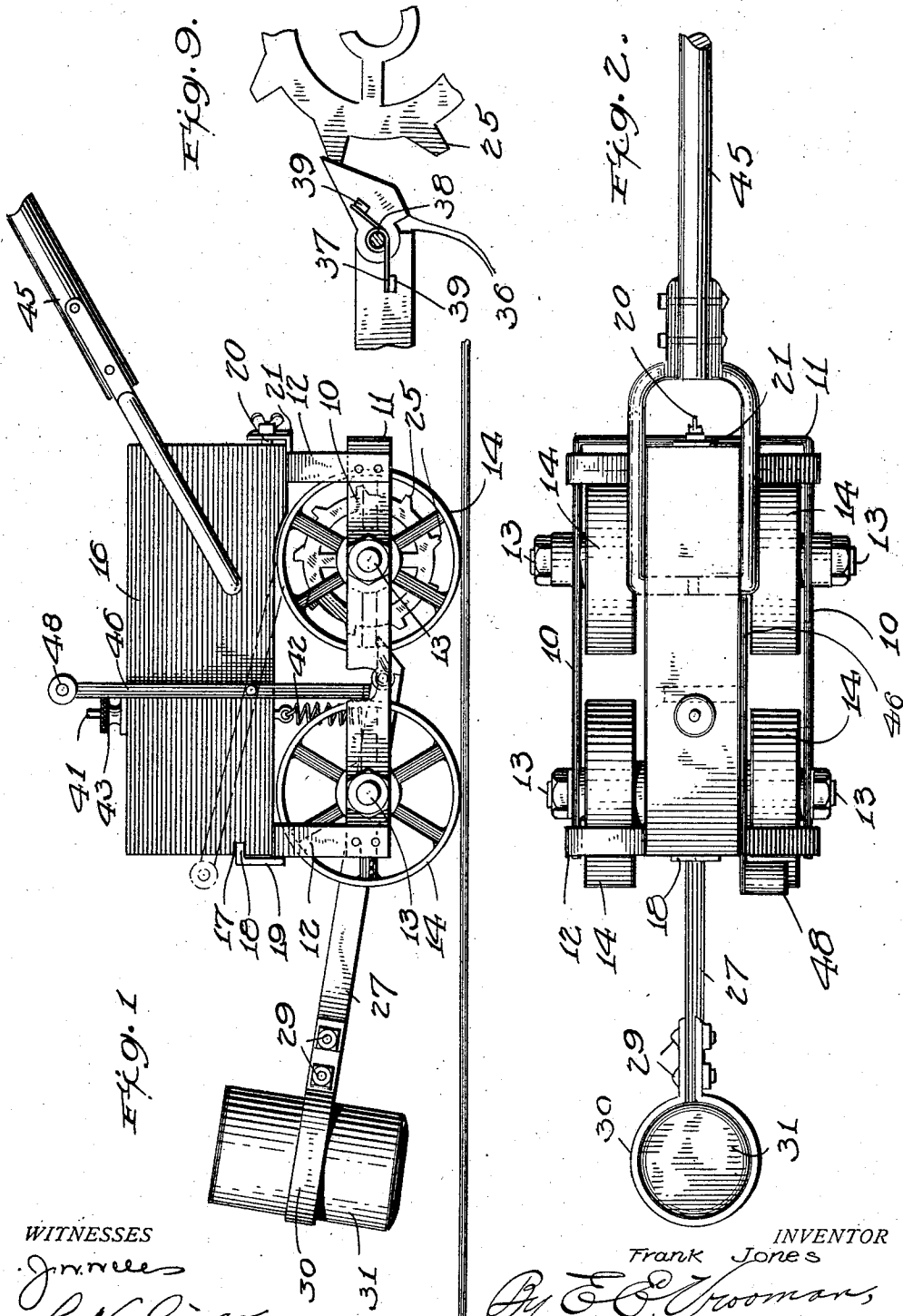


F. JONES.
TINNER'S SEAM BEATING DEVICE.
APPLICATION FILED JULY 20, 1912.

1,061,848.

Patented May 13, 1913.

3 SHEETS—SHEET 1.



WITNESSES

J. Jones
L. N. Miller

INVENTOR

Frank Jones

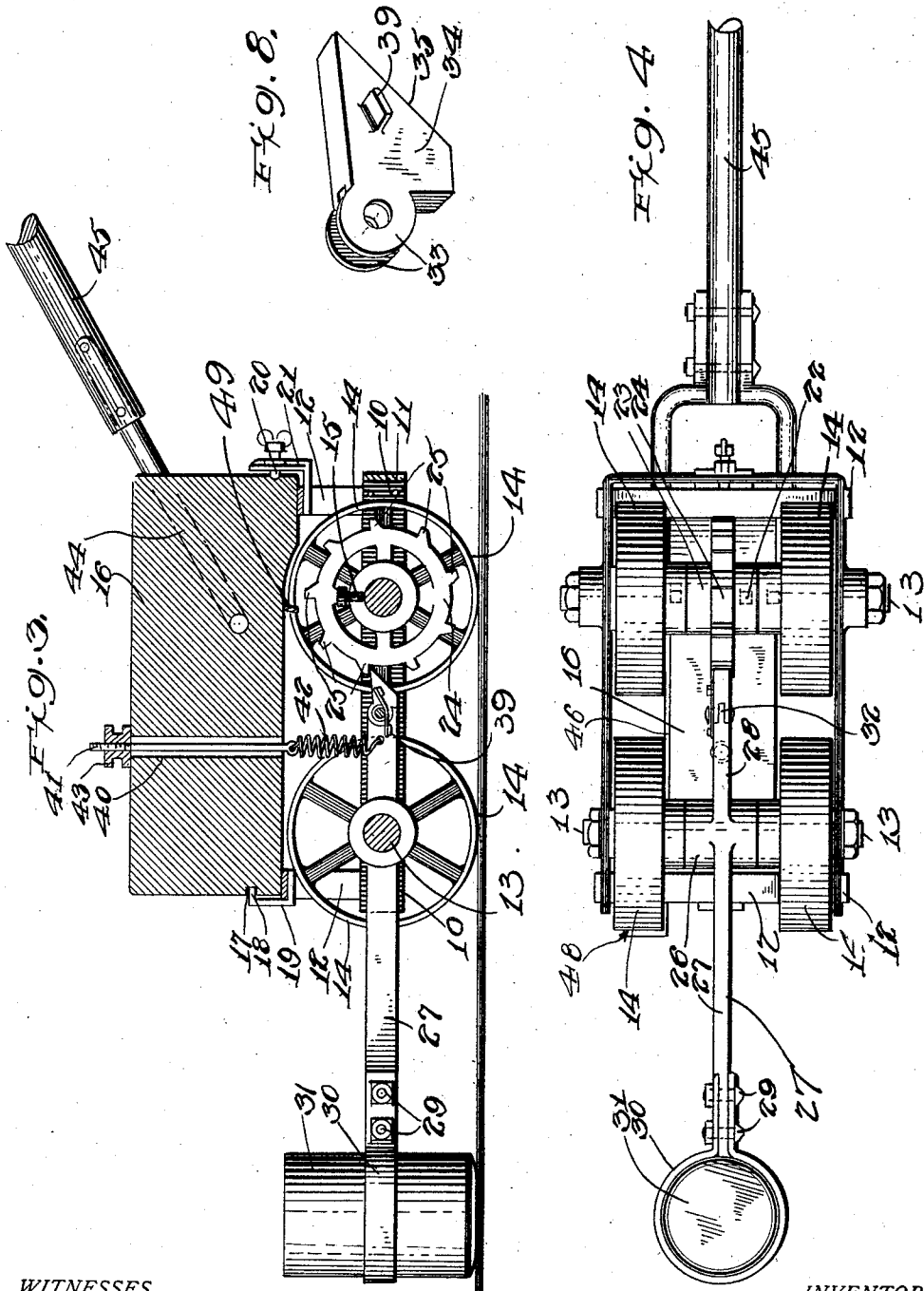
J. E. Frooman
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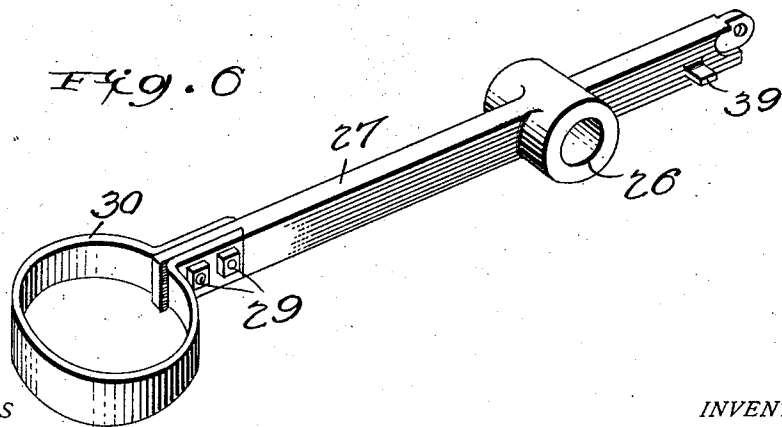
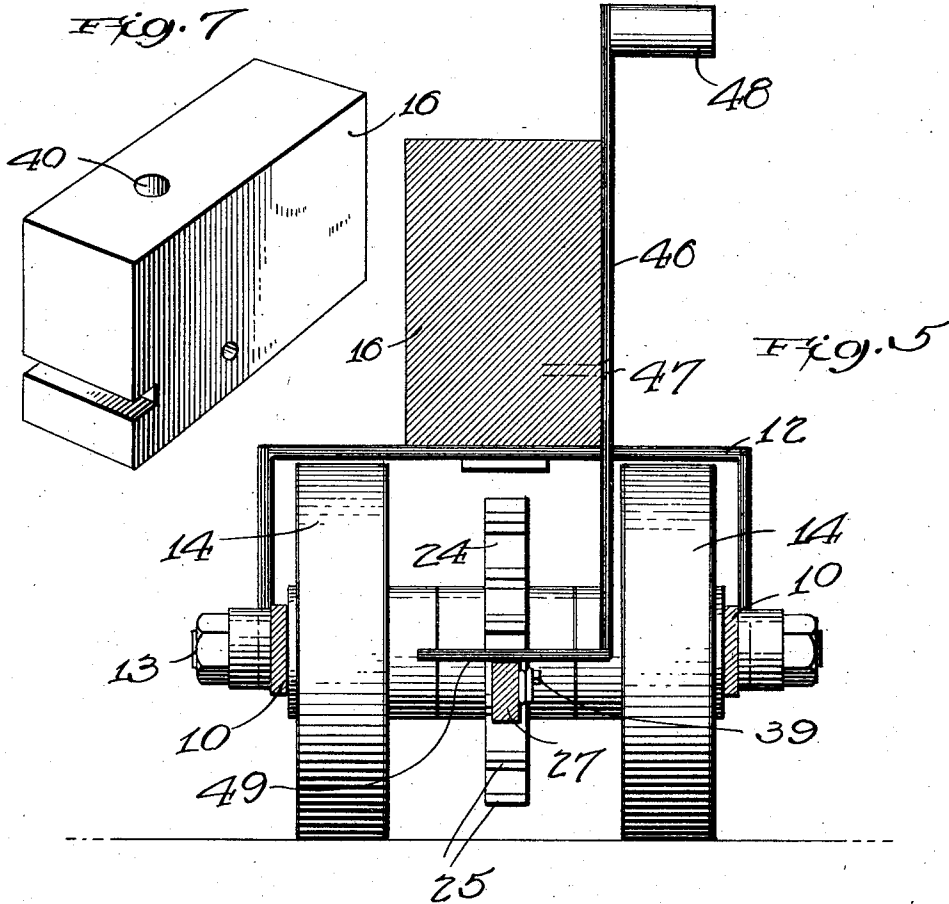
By E. P. Vrooman, his Attorney

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3 SHEETS-SHEET 3.



WITNESSES

J. N. Gillis

INVENTOR

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UNITED STATES PATENT OFFICE.

FRANK JONES, OF ROCK ISLAND, ILLINOIS, ASSIGNOR OF ONE-HALF TO WALDEMAR
A. ENDTER, OF ROCK ISLAND, ILLINOIS.

TINNER'S SEAM-BEATING DEVICE.

1,061,848.

Specification of Letters Patent.

Patented May 13, 1913.

Application filed July 20, 1912. Serial No. 710,703.

To all whom it may concern:

Be it known that I, FRANK JONES, a citizen of the United States, residing at Rock Island, in the county of Rock Island and State of Illinois, have invented certain new and useful Improvements in Tinner's Seam-Beating Devices, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to tinning tools and has special reference to a tinner's seam beating device.

The principal object of the invention is to provide an improved and simplified form of device which may be run by tinner's over seams, such as the seams in roofing and the like to flatten the same down in a more uniform manner and to provide a smooth flat seam to receive the solder.

Another object of the invention is to provide an improved form of device wherein the beating will be accomplished by a series of successive blows struck while the beater is advancing along the seam.

A third object of the invention is to provide a device wherein the beating arrangement will remain idle when the device is drawn backward so that a number of blows can be struck over the same length of seam.

A fourth object of the invention is to provide a device which may be thrown into and out of action manually when desired.

With the above and other objects in view the invention consists in general of certain novel constructions, combinations, and arrangements of parts as will be hereinafter fully described, illustrated in the accompanying drawings, and specifically claimed.

In the accompanying drawings:—Figure 1 is a side elevation partly broken away of a device constructed in accordance with this invention. Fig. 2 is a plan view thereof. Fig. 3 is a vertical median section there-through. Fig. 4 is a bottom plan view thereof. Fig. 5 is a detail section showing the manually arranged device for throwing the beater out of action. Fig. 6 is a perspective showing the lever which forms the handle of the beating hammer. Fig. 7 is a perspective view of the weight used herewith. Fig. 8 is a detail view of a certain pawl used herewith. Fig. 9 is a detail view of the pawl shown in Fig. 8 when the device is running backward.

In carrying out the objects of this inven-

tion there is provided a frame which consists of a U-shaped member having legs 10 and a bight portion 11. Secured to this U-shaped member are other vertical inverted U-shaped members 12. Extending through the legs 10 of the frame are shafts 13 whereon are mounted ground wheels 14, and the rear ground wheels 14 are fixedly connected to their shaft by means of set screws 15. Mounted on the members 12 is a weight 16 which has at its forward end a slot 17 wherein is held the flange 18 of a U-shaped clip 19, the other flange or leg of the U extending beneath the forward member 12 and being secured thereto. This weight is furthermore held in position by means of a bolt 20 which extends through an L-shaped member 21, one leg of which is secured beneath the bight of the rear U-shaped member 12 while the other leg projects upward behind the weight 16. Mounted on the rear shaft 13 and fixed thereto by means of a set screw 22 is a hub 23 on which is formed a wheel 24 provided with a series of cams 25. Pivotaly mounted on the front axle 13 is a hub 26 which forms the center of a lever having a forwardly extending arm 27 and a rearwardly extending arm 28. Secured to the forward end 27 of the lever by means of bolts 29 is a ring 30 which embraces a hammer head 31 of wood, leather, or other suitable material. The rear end of the lever arm 28 is reduced as at 32 and embracing this portion are the spaced ears 33 of a pawl 34 provided with a slanting face 35. The point of this pawl lies in the path of the cams 25 so that when the device is pushed forward these cams come in contact with the pawl. Both pawl and lever arm 28 are provided with shoulders 36 which limit the movement of the pawl so that when these cams 25 contact with the pawl the lever arm 28 is depressed and the hammer 31 raised and then allowed to fall against the seam over which the device may be run.

In order to hold the pawl yieldably in position for actuation by the cams in the forward movement of the device there is provided a coil spring 37 which surrounds the pivot pin 38 of the pawl and has its ends bearing against lugs 39 located respectively on the pawl and on the lever arm 28.

In order to increase and regulate the force of the blow on the seam the weight 16 is provided with an opening 40 where-

through passes a rod 41 which is connected at its lower end to a tension spring 42 and the lower end of this spring 42 is connected to the lever arm 28. On the upper end of the rod 41 there is provided a nut 43 so that the position of this rod may be regulated.

In order to push the device backward and forward over the seam a yoke 44 is pivoted to the weight 16 and this yoke is provided with a handle 45 of any desired form. It being necessary at times to throw the hammer out of operation there is provided a lever 46 which is pivoted to the weight 16 as at 47 and this lever is provided with a handle 48 and with an inwardly extending arm 49 which is so arranged that when the lever is raised to assume a vertical position the arm 49 forces the lever arm downward as shown in Fig. 1 and thus throws the device out of operation.

In operating this device the handle of the machine is grasped and the same is pushed forward and backward along the seam to be flattened. As the machine moves inward the cams 25 contact with the pointed end of the pawl 34 and depress the lever arm 28, thereby raising the hammer 31. As the cams clear the pawl 34 they will allow the hammer to fall and this action is assisted by the spring 42 so that the seam is beaten with a number of repeated blows as long as the machine moves forward. When the machine moves backward the cams 25 contact with the pawl 34 and move the same to the position indicated in Fig. 9 without moving the lever arm 28 so that the hammer simply rubs along across the seam and does not beat the same.

When it is desired to transport the device from one place to another the lever 46 is turned to a vertical position and this raises the hammer and depresses the lever arm 28 so that the wheel 24 can revolve without the cams 25 contacting with the pawl 34.

What is claimed is:—

1. In a device of the kind described, a frame, wheels supporting said frame, axles

journaled in said frame and carrying said wheels, a hammer provided with a handle pivotally mounted on one of said axles, and means on the other axle to intermittently raise said hammer.

2. In a device of the kind described, a frame, a weight detachably secured to said frame, axles journaled in said frame, ground wheels mounted on said axles, a hammer provided with a handle pivoted to one of said axles, a wheel provided with cam projections fixed on the other axle and arranged to contact with said hammer handle intermittently, and a spring carried by said weight and attached to said handle.

3. In a device of the kind described, a frame, axles journaled in said frame, wheels mounted on said axles, a hammer including a head, and a handle journaled on one of said axles, said handle being provided with a jointed extension forming a pawl, and a cam wheel on the other axle arranged to raise said hammer head when moving in one direction, and to move said pawl with reference to the handle when moving in the opposite direction.

4. In a device of the kind described, a frame, axles mounted in said frame, wheels carried on said axles, a hammer head, a lever pivoted intermediate its ends to one of said axles and provided with means for securing said hammer head, a pawl secured to said lever and pivoted to move in one direction with reference thereto, a spring constantly urging the pawl in the opposite direction, a cam wheel on the remaining axle having projections arranged to intermittently contact with said pawl, a weight carried by said frame, and a spring connecting said weight and lever for actuating said hammer head.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

FRANK JONES.

Witnesses:

HENRY H. JEBENS,
W. A. ENDTER.