

(No Model.)

F. KUSEL.
IMPLEMENT FOR CLOSING THE SEAMS OF METAL ROOFS.
No. 431,814. Patented July 8, 1890.

Fig. 1.

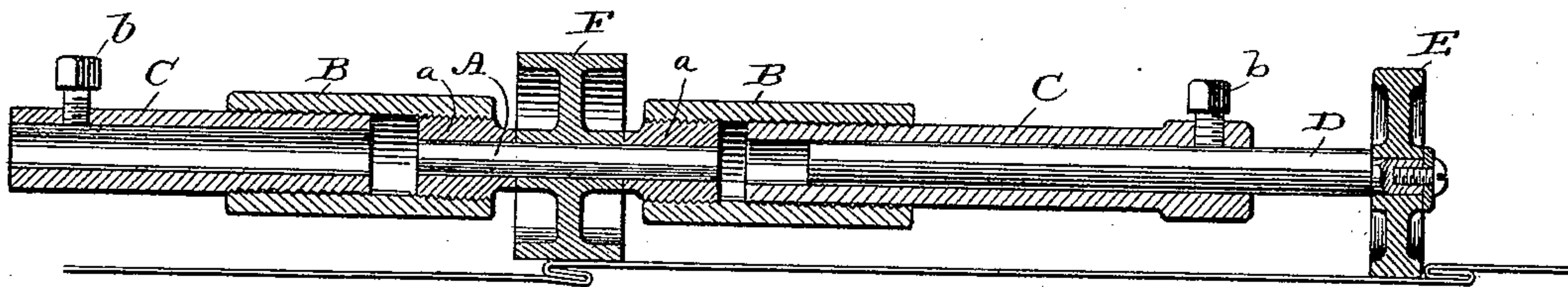
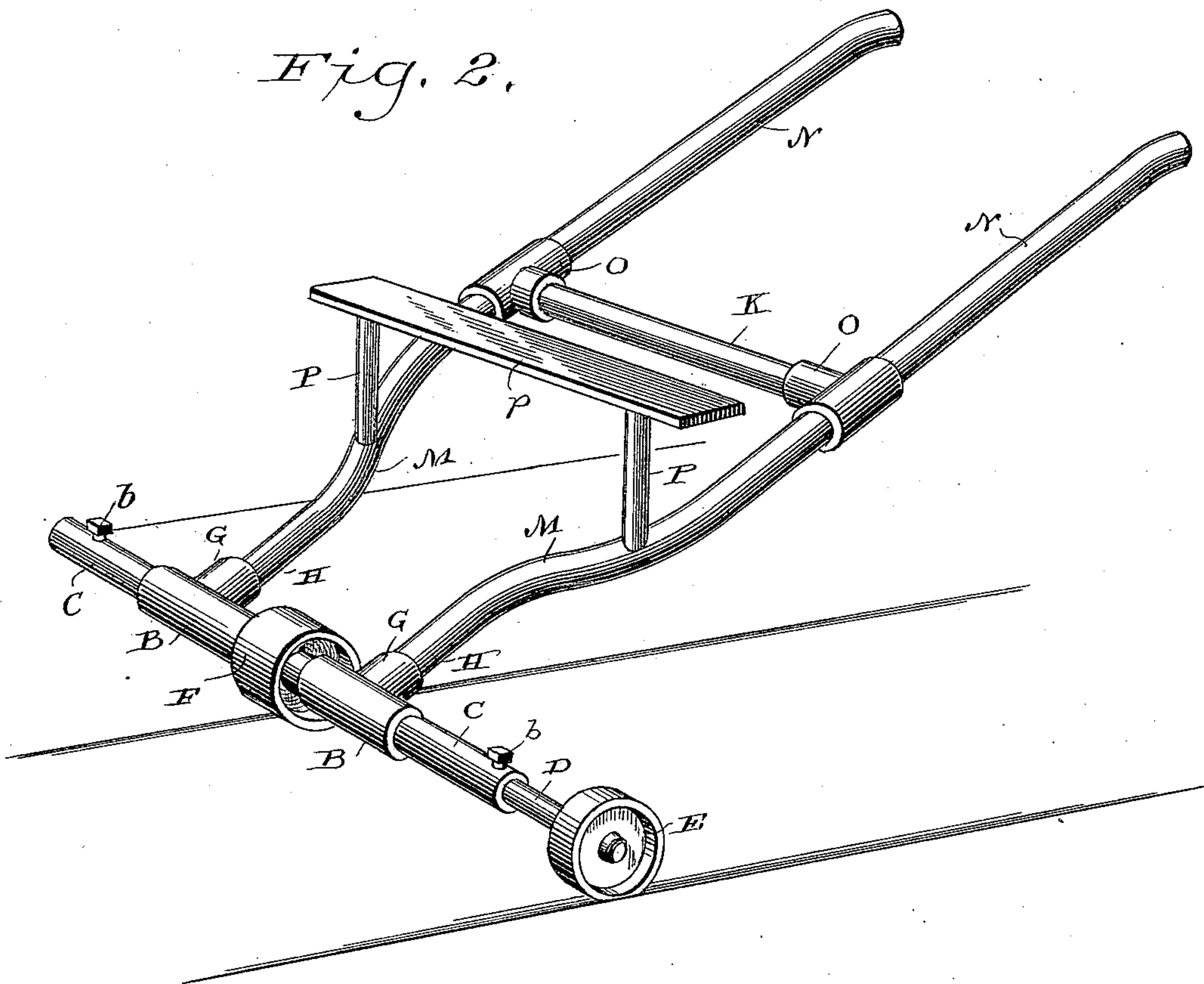


Fig. 2.



Witnesses
Geo. W. Young
Wm. K. Hug

Inventor
Frederick Kusel

By *Stout & Lindswood*
Attorneys

UNITED STATES PATENT OFFICE.

FREDERICK KUSEL, OF WATERTOWN, WISCONSIN.

IMPLEMENT FOR CLOSING THE SEAMS OF METAL ROOFS.

SPECIFICATION forming part of Letters Patent No. 431,814, dated July 8, 1890.

Application filed June 21, 1888. Serial No. 277,801. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK KUSEL, of Watertown, in the county of Jefferson, and in the State of Wisconsin, have invented certain new and useful Improvements in Implements for Closing the Seams of Metal Roofs; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to appliances for closing the seams of metal roofs; and the invention consists in certain peculiar and novel features of construction and arrangement, as hereinafter described, and pointed out in the appended claims.

In order that my invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 is a vertical longitudinal section of my improved seam-closing machine. Fig. 2 is a perspective view of the same.

The object of my invention is to produce a simple, inexpensive, and durable appliance for closing the seams of metal roofs, and one which can be easily and effectively manipulated. This result I accomplish by virtue of the construction which I will now proceed to describe.

A designates a cylindrical rod, which constitutes the axle of my improved seam-closer, and F designates a roller or wheel, the hub of which surrounds said rod or axle midway of its length.

a a designate two sleeves, which surround the axle at either side of the wheel F, and the inner ends of which abut against the hub of said wheel, while the outer portions of said sleeves are externally screw-threaded, as shown in Fig. 1.

B B designate two sleeves, each of which is internally screw-threaded throughout the length of its bore and at their inner ends surround the outer screw-threaded ends of the sleeves a.

C C designate two sleeves, the inner ends of which are externally screw-threaded to enter the outer ends of the sleeves B. These sleeves have each a central longitudinal bore extending throughout its length, and carries at its outer end a set-screw b, which is tapped radially into the sleeve, as shown; but one of

these screws b is shown in the drawings, owing to limitation of space thereon, but its position at the outer end of the left-hand sleeve C in Figs. 1 and 2 is believed to be obvious. 55

D designates an elongated rod or axle, the inner end of which is inserted into the outer end of one or the other sleeve C, and retained therein by the set-screw b. Upon the outer end of this shaft D is mounted a wheel E, which turns upon the shaft for a purpose described hereinafter. 60

The sleeves B, before referred to, have each a radial forwardly-extending coupling-socket G, protruding midway of the length of the sleeve after the form of a T-coupling, and within these sockets are screwed the rear ends of two bars or pipes M. The forward ends of these bars or pipes M are screwed into the rear ends of T-couplings O, into the outer ends of which are screwed extensions or handles N. The radial inwardly-extending sockets of the T-couplings O receive the ends of a cross-bar or pipe K, which braces the shafts M N laterally, as shown. 75

P designates two pipes the lower ends of which are tapped into the upper side of the bars or pipes M, and which extend vertically upward therefrom. Upon the upper ends of these uprights P is secured a seat p, as shown. 80

The operation of the structure above described is as follows: The rod or axle D is inserted into one of the sleeves C such a distance that when the wheel F rests upon one of the lapped seams the outer wheel E shall abut laterally against the next seam either to the right or to the left of the seam upon which the wheel F rests. A person seats himself upon the seat p, using the cross-piece K as a foot-rest, or some heavy object may be placed upon or secured to the seat and another person grasps the handles N and draws the implement along, so that the wheel F finishes or flattens down the seam upon which it runs, the outer wheel E acting in conjunction with the contiguous seam to guide the wheel F in its work. 95

It will thus be seen that I have produced a very simple, effective, and durable implement, which rapidly finishes the seams of the roof without requiring any objectionable hammering of the same. 100

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

1. In an implement for finishing the seams
5 of metal roofs, the combination, with a draft-frame constructed of tubular sections screw-threaded together and comprising a pair of shafts and a transverse tubular portion, of a presser-wheel located midway of the length of
10 said transverse tubular portion, and a shaft carrying a guide-wheel at one end and inserted adjustably and removably into one or the opposite end of said transverse tubular portion, substantially as described.

15 2. In an implement for finishing the seams of metal roofs, the combination, with a draft-frame constructed of tubular sections screw-threaded together and comprising a pair of shafts carrying a seat and a lateral brace or
20 foot-rest, and also a transverse tubular portion, of a presser-wheel located midway of the length of said transverse tubular portion and a shaft carrying a guide-wheel at one end and inserted adjustably and removably into
25 one or the opposite end of said transverse tubular portion, substantially as described.

3. The combination of the axle A, the presser-wheel mounted on said axle, the inner sleeves abutting against the hub of said wheel and surrounding said axle, the T-shaped
30 sleeves screwed upon the outer ends of said sleeves, the outer sleeves screwed into said T-shaped sleeves, the shaft-pieces screwed to the lateral sockets of the T-shaped sleeves and carrying the seat, the T-couplings screwed
35 to the outer ends of the shaft portions, the lateral brace or foot-rest screwed to the lateral sockets of said T-couplings, the handles screwed to the outer ends of said couplings, and the shaft carrying the guide-wheel at its
40 outer end and inserted removably and adjustably into the outer end of one or the opposite outer sleeve, all substantially as described.

In testimony that I claim the foregoing I
45 have hereunto set my hand, at Watertown, in the county of Jefferson and State of Wisconsin, in the presence of two witnesses.

FREDK. KUSEL.

Witnesses:

S. S. STOUT,
ZENO BRUEGGER.