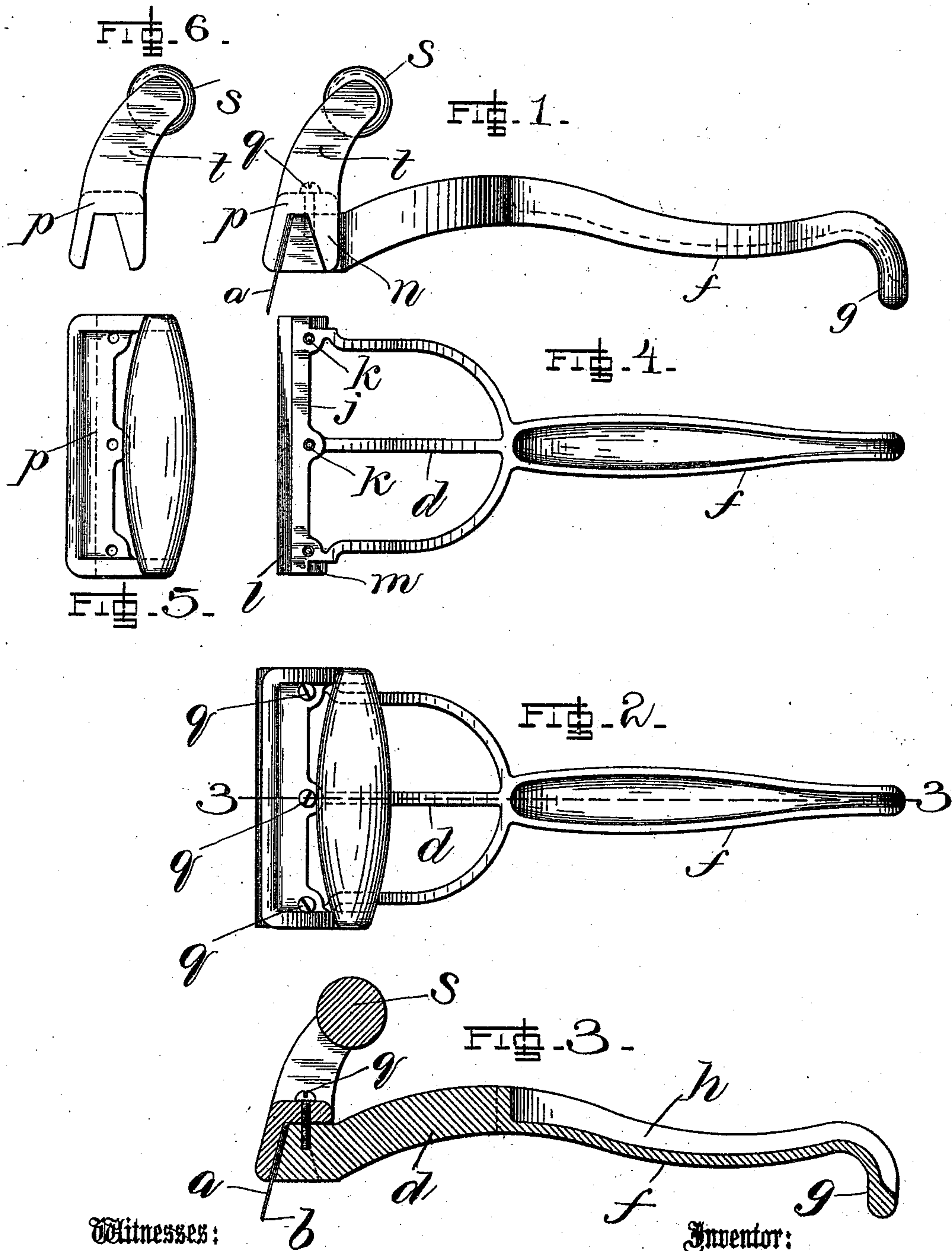


(No Model.)

F. J. PERKINS.
WOOD SCRAPER.

No. 516,225.

Patented Mar. 13, 1894.



Witnesses:

Arthur F. Randall,
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UNITED STATES PATENT OFFICE.

FRANKLIN J. PERKINS, OF WOBURN, MASSACHUSETTS, ASSIGNOR OF THREE-FOURTHS TO CHRISTOPHER A. BLACKBURN, OF SAME PLACE.

WOOD-SCRAPER.

SPECIFICATION forming part of Letters Patent No. 516,225, dated March 13, 1894.

Application filed September 14, 1893. Serial No. 485,447. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN J. PERKINS, a citizen of the United States, residing at Woburn, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Wood-Scrapers, of which the following is a specification, reference being had therein to the accompanying drawings.

In finishing floors and other wooden surfaces a scraper is frequently employed. The blade of the scraper which comes in contact with the wood is usually made from a flat piece or plate of steel which is sharpened at one edge. For effective work this blade should be held at an angle to the surface of the wood, the line of the end of the scraper forming on one side thereof an acute angle with the surface of the wood and on the other an obtuse angle. The blade of the scraper moves when doing its work in a direction opposite to that in which a cutting blade, as for example, that of a plane, moves.

It is desirable in finishing floors and the like, that the blade of the scraper should project in such a manner that it may be employed in corners or close to the edge of the floor at the wall.

My invention has for its object to provide a scraper which may be conveniently held at the proper angle in such manner that the workman may exert his full strength on the implement and which may be used over the whole of the surface to be scraped as well at the corners or edges as upon the other portions and it consists in the device which is hereinafter more fully set forth, and the novel features of which are pointed out in the claims which are appended hereto and made a part hereof.

I have shown my device in the best form now known to me in the accompanying drawings in which—

Figure 1 is a side elevation. Fig. 2 is a plan view. Fig. 3 is a lengthwise section on line 3—3 Fig. 2. Fig. 4 is a plan view of the device with the upper handle and blade removed. Fig. 5 is a plan view of the upper handle and its supporting frame attached. Fig. 6 is an end view thereof.

At *a* is shown the blade of the scraper which is provided with a scraping edge at *b*. The blade *a* is secured in a holder which consists of two parts. The part *d* is provided with a handle portion at *f* by means of which it may be securely grasped. The rear end of the handle *f* is turned downwardly, that is, to the same side as the blade as shown at *g* to form a support for the hand, and to prevent the hand from slipping when the scraper is turned toward the user. This downwardly projecting portion *g* is also preferably of sufficient length so that when it rests on the floor or surface being scraped, the portion *f* of the handle will be a sufficient distance from the floor to permit it to be grasped by the hand without the fingers coming in contact with the floor. When used in this way, the end of the part *g* will slide on the floor and greater pressure and force may be exerted by the workman. The length of the part *g* should also be such that when it rests on the floor the scraper blade will be at the correct angle with the floor for the most effective work. In this way the downwardly projecting end *g* of the handle serves not only to give the workman a better grasp on the handle, but also serves to raise the handle a proper distance from the floor to protect the fingers of the workman, and also to set the blade at a proper angle for the most efficient work. The under side of the handle *f* is rounded preferably and its upper side is hollowed out as shown at *h* to reduce the weight of the implement and to lessen its cost. The part *d* of the holder which is provided with the handle *f* as previously stated, is preferably forked at its forward end as shown, Fig. 4, the forward ends of the forks being connected by a cross portion *j*. This is provided on top with two or more screw holes *k* in order that the other part of the holder may be secured thereto. The part *j* is extended slightly at either end, and the face *l* thereof formed on a bevel, the angle of the bevel corresponding with the angle which the blade is to form with the floor, when the handle *d* is in a horizontal position. The ends of the part *j* are beveled on their rear sides as shown at *m* to form cam surfaces which receive correspondingly beveled projections *n*, on the other

part *p* of the holder. The part *p* of the holder is adapted to fit over the top of the part *j* and over the face *l*, thereof, and it is provided at either end with rearwardly and downwardly projecting parts *n* which fit on the beveled portions *m* of the ends of the part *j* so that the blade *a* of the scraper may be placed between the face *l* and the corresponding downwardly projecting portion of the part *p* and securely held, the part *p* being secured on the part *j* by means of screws *q* which pass through the part *p* and into the holes *k* in the part *j*. The holes in the part *p* through which the screws *q* pass are slightly larger than the screws so that as the screws are set down, the arms *n* which co-act with the bevels *m* may slides lightly on said bevels and thus act to wedge the blade *a* between the face *l* and the corresponding portion of the part *p* thus securing the blade firmly in place. At the ends of the part *p* and projecting upwardly therefrom are the curved arms *t* which serve as supports for the upper handle *s*. The upper handle *s* may be of wood or other suitable material and is of a shape to permit the operator to grasp it securely; or the handle *s* may be of metal and may be cast integral with the part *p* of the holder. The holder is preferably cast in two parts, namely the part *p* and the part *d*.

The device is simple in construction and may be readily taken apart or put together in case it is desired to remove the blade and put another in its place.

The handle *s* is located almost directly over the blade *a* and this is important since power may be applied at that point with greatest efficiency. In use, the workman would ordinarily grasp the handle *f* with the left and the handle *s* with the right hand, thus obtaining the full power of both arms and enabling him to do the work more speedily and easily than with any other implement of this kind now known to me.

Since the blade *a* projects from the holder and is, at or near the scraping edge, wholly clear of and free from a frame or similar part, any work may be done with the implement which may be done if the scraping blade alone were held in the hand of the

workman, and this is important since all scraping implements, the blades of which are surrounded by a frame or holding part after the manner of a plane, are objectionable, because the frame interferes with the blade not only when working in corners but also when working upon a surface which is not perfectly flat since the blade in such an implement cannot get into slight depressions.

What I claim is—

1. A scraper comprising a blade, and a holder for the same, consisting of two parts, each of which is provided with a handle, each of said parts also having a fixed beveled face between which beveled faces the blade is held and means for securing the said two parts together and thereby clamping the blade in place, substantially as set forth.

2. A scraper comprising a blade and holder consisting of two parts having opposing surfaces between which the blade is placed one of said parts having cam portions *m* and the other of said parts having portions *n* for engaging said cam portions, and securing devices for securing the two parts of the holder together whereby as the securing devices are tightened the blade will be firmly gripped and held in consequence of the action of the cam portions *m* upon the engaging portions *n* substantially as set forth.

3. A scraper comprising a blade and a holder, said holder having a rearwardly extending portion provided with a handle and having a portion rearwardly of the handle extending on the same side as the blade and to such an extent as to constitute a gage and hand-hold substantially as and for the purposes set forth.

4. The combination in a scraper with the blade *a* of a holder comprising a part *d*, having a beveled face *l*, and beveled portions *m*, a part *p* having beveled projections *n* and securing screws *q*, substantially as set forth.

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

FRANKLIN J. PERKINS.

Witnesses:

WM. A. MACLEOD,
A. H. MORRISON.