

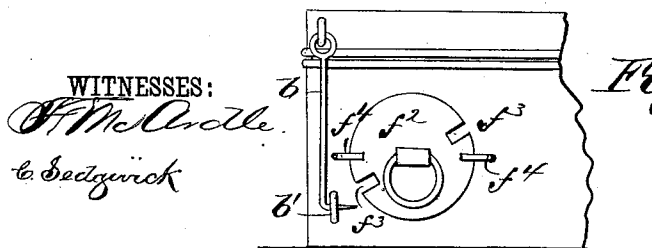
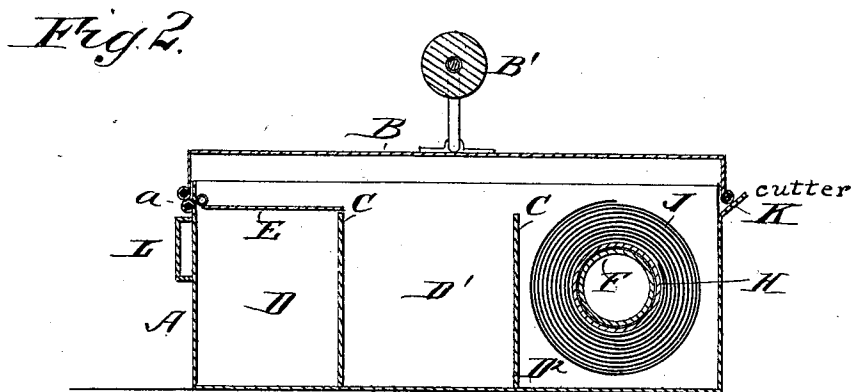
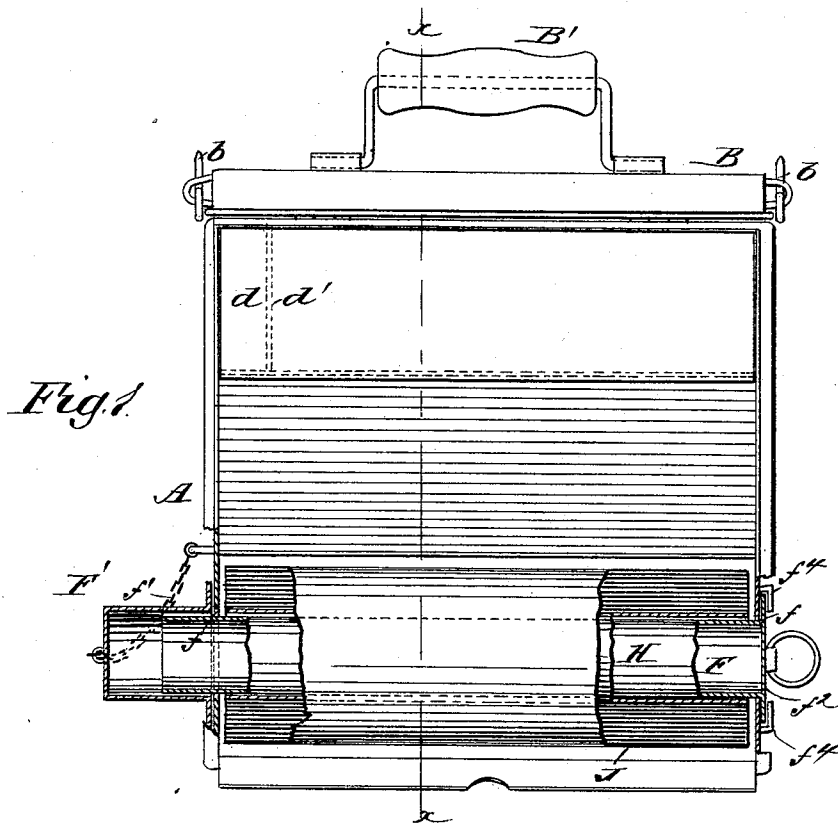
(No Model.)

E. WILLIAMS, Jr., & D. E. KELLER.

MINER'S OUTFIT.

No. 366,907.

Patented July 19, 1887.



INVENTOR:

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UNITED STATES PATENT OFFICE.

EDWARD WILLIAMS, JR., AND DAVID E. KELLER, OF CENTRALIA,
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MINER'S OUTFIT.

SPECIFICATION forming part of Letters Patent No. 366,907, dated July 19, 1887.

Application filed May 3, 1887. Serial No. 236,957. (No model.)

To all whom it may concern:

Be it known that we, EDWARD WILLIAMS, Jr., and DAVID E. KELLER, of Centralia, in the county of Columbia and State of Pennsylvania, have invented a new and Improved Miner's Outfit, of which the following is a full, clear, and exact description.

The object of our invention is to provide a practical and convenient outfit or supply-case for miners' use, to carry squibs, paper, small tools, &c., which will protect the contents from dampness and furnish separate compartments for the small articles used in mines.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a broken plan view of our new and improved miner's outfit, showing the cover open. Fig. 2 is a sectional elevation, taken on the line *x x* in Fig. 1, showing the lid closed; and Fig. 3 is a detailed end view showing the squib-holder.

The invention will first be described in connection with the drawings, and then pointed out in the claims.

A represents the main body or casing of the box, made preferably of tin or other sheet metal, and B represents the lid, hinged to the body A by suitable hinges, *a*. The lid is provided with the hooks *b b*, to enter the staples *b'* in the front of the body A, for fastening the lid in closed position, and it is provided at the top with the handle *B'*, for convenience in carrying the outfit. Within the body A are secured the two partitions C C, which divide the box into the three compartments D D' D². The compartment D is provided with a lid, E, and in it may be carried a package of squibs. A small transverse partition, *d'*, is fitted in the compartment D, to form a small compartment, *d*, for matches. In the central compartment may be carried soap and cotton or other similar materials. In compartment D² is fitted a tubular box, F, for squibs. This tubular box is of a length somewhat greater than the width of the main body A of the box, and it passes through openings *f f* made in the side walls of the body A. The open end of this tubular box is closed by a cap, F', held to the body A by

a small chamber, *f'*. The opposite end of the box is closed by a circular plate, *f²*. (Shown in Fig. 3.) This plate forms a flange, as shown in Fig. 1, and it is slotted, as shown at *f³ f³* in Fig. 3, to pass the fastening-hooks *f⁴*, so that by simply turning the box solid portions of the flange will come in line with the hooks *f⁴* and thus fasten the box in place. Upon the box F is placed the sleeve or tube H, which is adapted to turn freely upon the box. On this tube or sleeve is wound the roll of blast-paper J, as shown clearly in Figs. 1 and 2. To the front wall of the main body A is secured near its upper edge the inclined flange K, which serves as a paper-cutter for convenience in cutting the paper J into suitable lengths for use.

By removing the cap F' the contents of the tubular box F may be conveniently reached, and the said box may be easily removed from the openings *f* and from the sleeve H and replaced when the latter is to be refilled with paper.

At the back of the main body A is secured the loop L, in which a flat file may be conveniently carried with and made a part of the outfit.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patents, is—

1. The body A, formed with several compartments and provided with the openings *f*, in combination with the tubular box F and sleeve H, placed on the box F within the body A, substantially as described.

2. The body A of the box, formed or provided with the paper-cutter K and formed with several compartments, in combination with the tube H, held upon the box F, substantially as described.

3. The body A of the box, having corresponding openings, *f*, formed in opposite walls, in combination with the box F, of greater length than the body A, fitted in the openings *f* and provided with a cover, F', at the outside of the body A, substantially as described.

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Witnesses:

PETER H. LOEPER,
WM. D. REESE.