J. A. CALLIER.

PORTABLE STORAGE BATTERY CASE.

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1,088,531.

Patented Feb. 24, 1914.

Fig. 1.

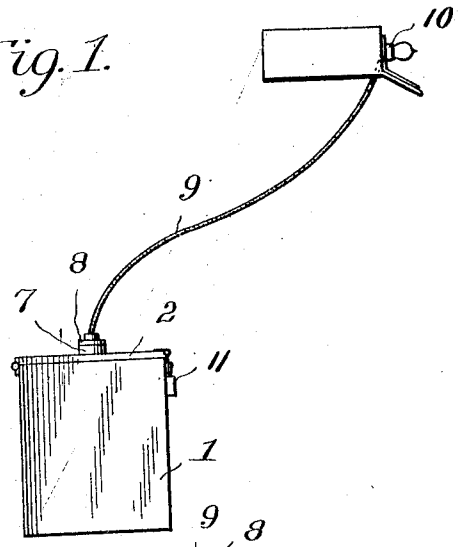
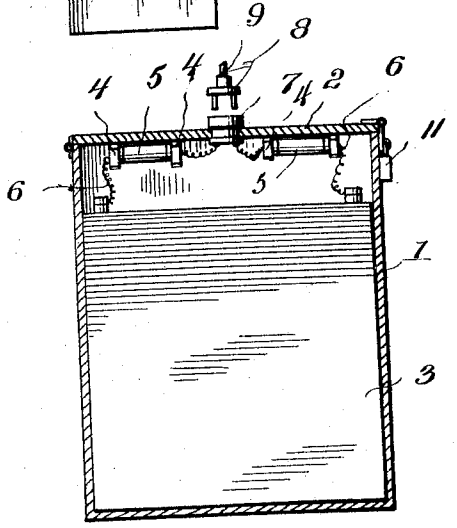


Fig. 2.



Inventor

J. A. Callier.

Witnesses

William Smith

John J. McCarthy

By Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

JOSEPH A. CALLIER, OF ROSLYN, WASHINGTON.

PORTABLE STORAGE-BATTERY CASE.

1,088,531. Specification of Letters Patent. Patented Feb. 24, 1914.

Application filed July 9, 1913. Serial No. 778,133.

To all whom it may concern:

Be it known that I, JOSEPH A. CALLIER, a citizen of the United States, residing at Roslyn, in the county of Kittitas and State of Washington, have invented new and useful Improvements in Portable Storage-Battery Cases, of which the following is a specification.

This invention relates to improvements in storage cases or receptacles and has particular application to a receptacle or case for carrying the storage batteries of miners' lamps in mines.

In carrying out the present invention, it is my purpose to provide a case of the class described which may be readily attached to the belt of a miner and whereby the storage battery and fuses may be carried in a closed condition so that in the event of short circuiting of the miner's lamp or the lead wires from the battery to the lamp, the fuse will blow out within the case and thereby eliminate the possibility of explosions and the like incident to the sparks caused by the blowing out of the fuse.

It is also my purpose to provide a device of the type set forth which will embrace the desired features of simplicity, efficiency and durability, one which may be manufactured and marketed at a minimum expense and one which will be of comparatively light weight so that the same may be carried about with ease and facility.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of parts hereinafter set forth in and falling within the scope of the claims.

In the accompanying drawing; Figure 1 is a view in elevation of a storage battery carrying case constructed in accordance with the present invention. Fig. 2 is a vertical sectional view through the case.

Referring now to the accompanying drawing in detail, the numeral 1 designates a substantially rectangular case or receptacle constructed of some suitable material preferably metal and provided with a removable top 2 whereby access may be had to the interior of the case. Mounted within the receptacle 1 and resting upon the bottom wall thereof is a storage battery 3 of any desired construction, while depending from the cover 2 within the receptacle or case are alining sockets 4, 4 designed to receive a fuse cartridge 5. Leading from the opposite poles of the storage battery and including the fuse cartridge 5 in series are the lead wires 6 terminating in a socket 7 secured to the cover 2 approximately centrally thereof and designed to receive a plug 8 from which latter leads the lamp cord 9 terminally connected to the miner's lamp 10, the latter being usually carried upon the cap. Each fuse cartridge 5 is of the slow-burning type in contradistinction to the blow-out type of fuse so that when the leads become short circuited, the fuse will melt and so increase the resistance in the circuit whereby a too rapid discharge of the battery will be avoided and arcing or sparking at the point where the short circuit takes place eliminated.

From the foregoing description taken in connection with the accompanying drawing, the construction and manner of employing my invention will be readily apparent.

It will be seen that when the plug 8 is inserted within the socket 7 the circuit to the lamp 10 will be closed and such lamp illuminated. Should the lamp circuit be short circuited in any manner, the fuse 5 within the case 1 will burn out and thereby prevent sparks flying about the mine.

The cover 2 is preferably hingedly connected to the receptacle 1 and held in closed position through the medium of an appropriate form of lock 11. The key to the lock 11 is preferably carried by the mine superintendent or other person in authority so that when a fuse has blown out a miner will be compelled to return to the surface or other safe place before the fuse can be replaced.

One side wall of the case or receptacle 1 is preferably provided with alining eyes or loops so that the case may be readily fastened upon the miner's belt.

I claim:

1. A device of the class described comprising a case adapted to receive a storage battery, a removable cover for said case, sockets carried by said cover and depending into said case and adapted to receive a fuse cartridge, a plug socket carried by said cover and forming the terminals of the line wires of the storage battery within the case, a plug coöperating with said last socket, a lamp cord connected to said plug, and a lamp connected to the free terminals of the wires of said lamp cord.

2. A device of the class described comprising a case adapted to receive a storage battery, a removable cover for said case,

sockets carried by said cover and depending into said case and adapted to receive a fuse cartridge, a plug socket carried by said cover and forming the terminals of the line wires of the storage battery within the case, a plug coöperating with said last socket, a lamp cord connected to said plug, a lamp connected to the free terminals of the wires of said lamp cord, and means for locking said cover against movement to open position.

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

JOSEPH A. CALLIER.

Witnesses:
DAVID DAVIS,
WALTER G. PATON.