

H. BUTTNER.
IGNITER.

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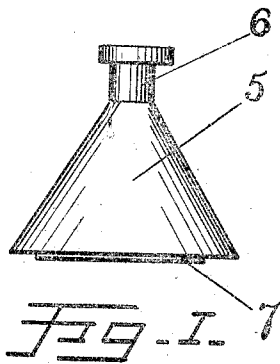
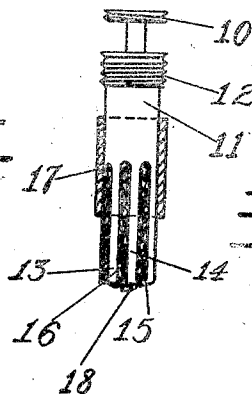
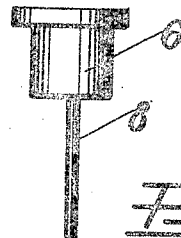
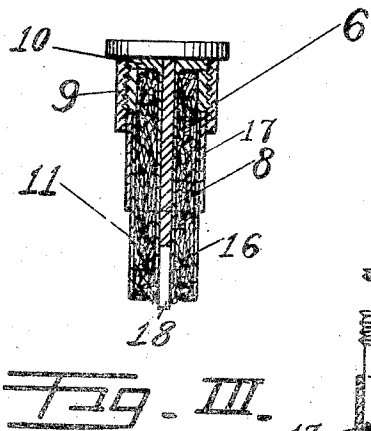
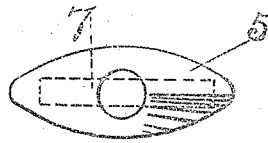


Fig. II.



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UNITED STATES PATENT OFFICE.

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To all whom it may concern:

Be it known that I, HANS BUTTNER, a subject of the Emperor of Germany, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Igniters, of which the following is a specification.

This invention relates to a lighter of the nitrid type now commonly used. It is particularly adapted for use under various circumstances, that is where a light is needed and great volume of flame is then desired, where a small light is desired such as in lighting a cigar, etc., or it may be used upon the street in windy weather, in which case a larger burning area is necessary to prevent its being blown out.

Referring to the drawings: Figure 1 is a side elevation of the entire device embodying my invention, Fig. 2 is a top view of my invention with the lighter removed, Fig. 3 is an enlarged sectional view of the lighter, Fig. 4 is an enlarged view of the cap and center rod, Fig. 5 is a partial elevation and section of the wick carrying member and slotted sleeve, the nitrid holding member being partly withdrawn.

Like numerals refer to similar parts in all the figures of the drawings.

Referring to Fig. 1, 5 represents the top portion adapted to carry a liquid which will keep the burner member of the igniter saturated when not in use. 6 represents the cap member which carries the igniter and wick. A file 7 or a similar rough material is placed on the bottom of the receptacle and rigidly fastened thereto.

Referring particularly to Fig. 3 numeral 8 represents a rod centrally and rigidly positioned in cap 6. The inner periphery of cap 6 is screwthreaded as at 9. This screwthread is adapted to hold the adjustable nitrid carrying member 10 therein. A wick carrying member 11 is also adapted to screw into the member 6. The screw threads 12 serve this purpose. The wick member 11 has one end slotted as at 13 thereby forming fingers 14 having their ends bent as at 15 to hold within the tube the asbestos wick 16. A sliding sleeve 17 is adapted to freely slide over the member 11 and by its position it regulates the amount of exposed wick. A nitrid element 18 is held within the tube or nitrid carrying member 10 and as it becomes

used or worn by abrasion upon the file 7 it may be pushed farther out of the nitrid cap 10 by the rod 8. This is caused by the rotating of the nitrid cap member within the cap.

The operation of the device is as follows:—When the apparatus is first assembled a new piece of nitrid is inserted within the nitrid holding member. This member is then only partly screwed into the cap until the nitrid strikes the pusher. The wick member is then screwed into the cap until the point of the nitrid just projects through it. The whole striker is then placed within the receptacle 5 which carries benzin or some similar fluid. When it is desired to obtain a light the whole cap containing the striker is withdrawn and the nitrid strip is drawn across the file upon the bottom of the receptacle. This causes sparks which ignite the vapor of the benzin causing the exposed wick to burn. The amount of flame can then be regulated by the sliding sleeve by pushing it toward the end of the igniter. Only a small portion of the wick is exposed and consequently only a small flame is obtained, by sliding the sleeve back toward the cap a larger area of wick is exposed and a larger flame obtained.

Having described my invention what I claim is:—

In combination with a conical shape receptacle a file member rigidly attached thereto, an igniter member removably carried therein, said igniter members consisting of a cap internally threaded, a pusher rod centrally and rigidly fastened within said cap, a tubular nitrid carrying member having one end enlarged, said enlargement being screwthreaded and adapted to screw within said cap, a tubular wick carrying member having an enlarged portion of its outer periphery screwthreaded and adapted to screw within said cap, a portion of said wick carrying member being slotted so as to expose a portion of the wick and a sleeve adapted to slide upon said wick carrying member.

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

HANS BUTTNER.

Witnesses:

WALLACE H. WINGUEST,
AGNES M. MCGEE.