

E. S. TIMMONS.  
KNIFE.  
APPLICATION FILED MAR. 7, 1908.

916,630.

Patented Mar. 30, 1909.

Fig. 1.

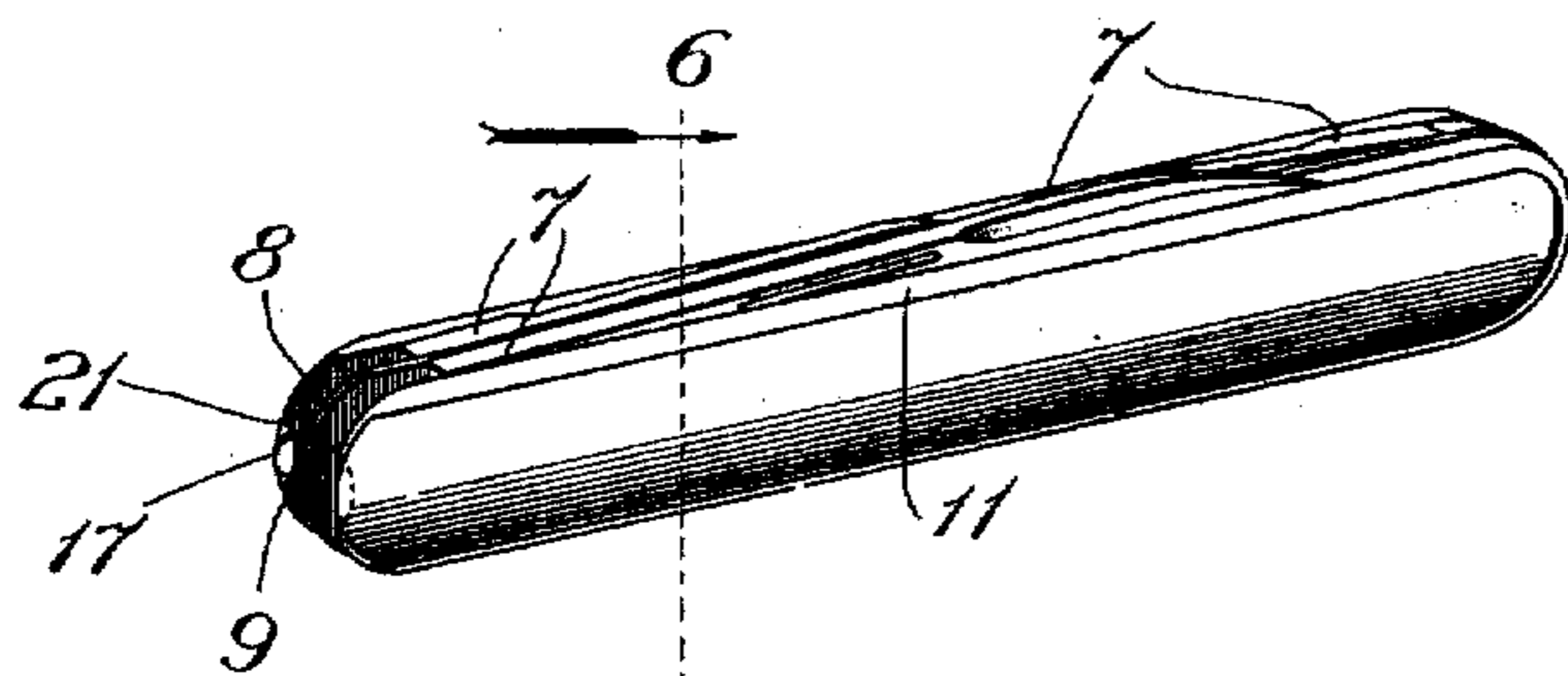


Fig. 2.

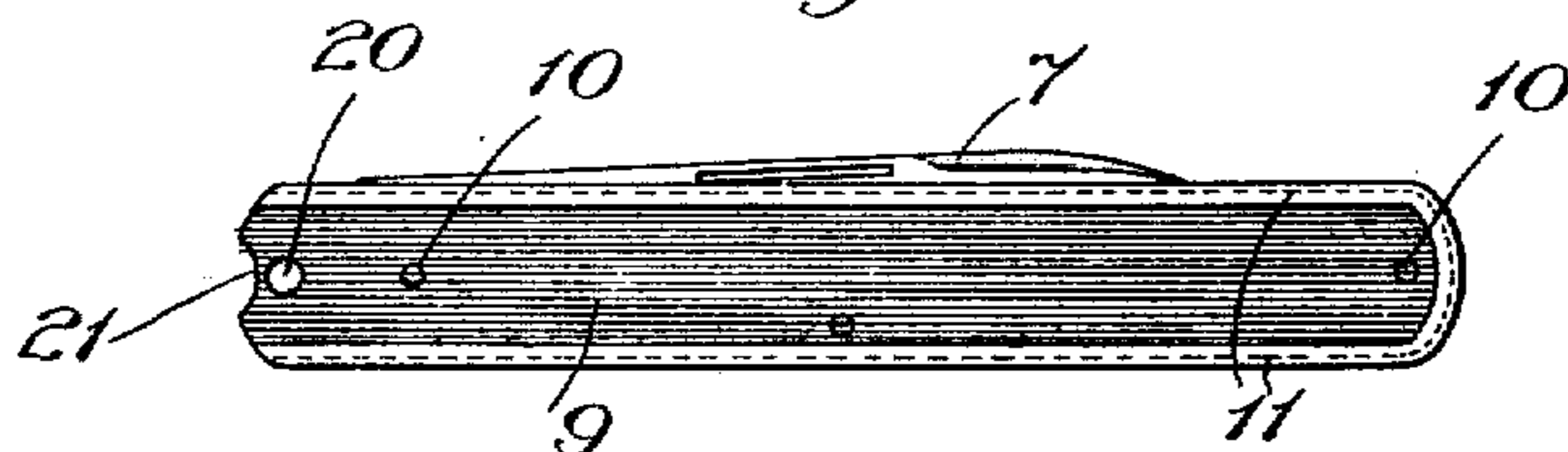


Fig. 3.

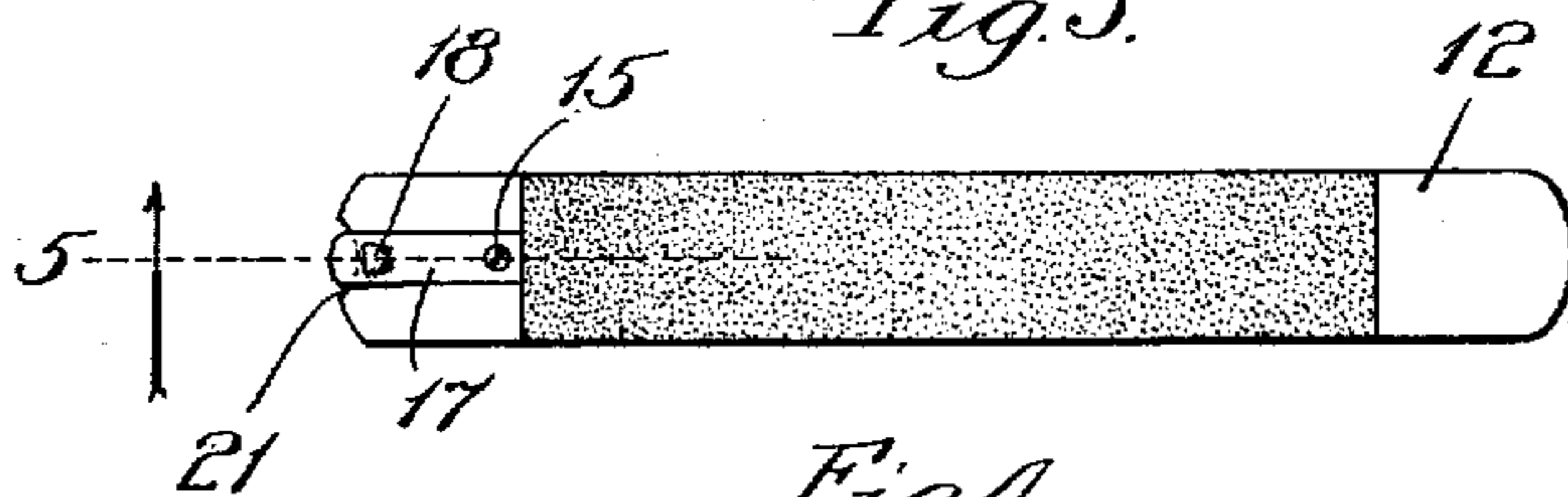


Fig. 4.

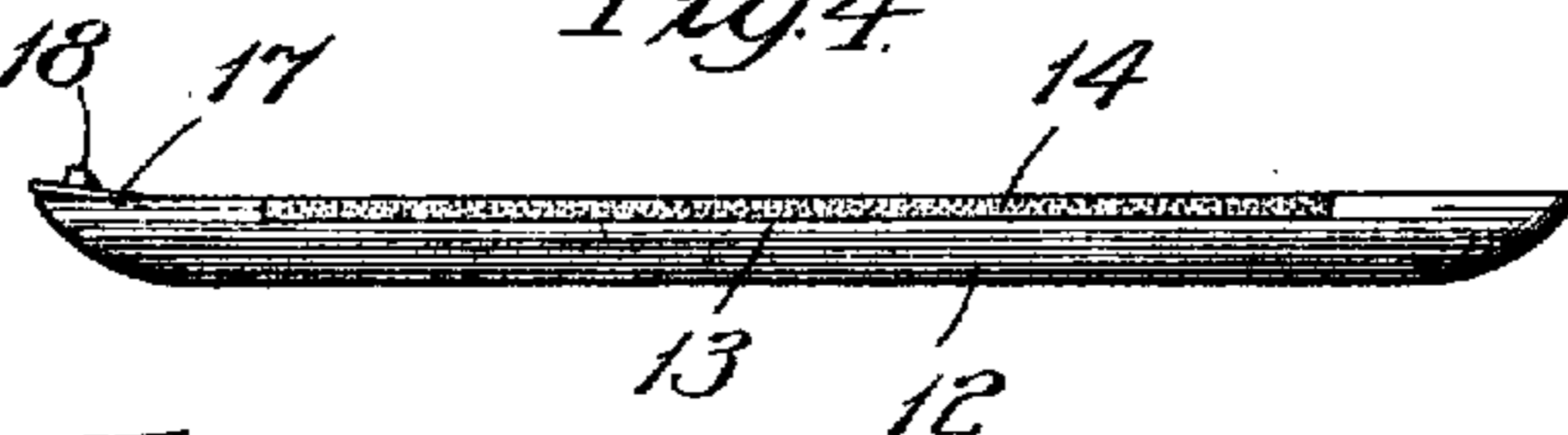


Fig. 5.

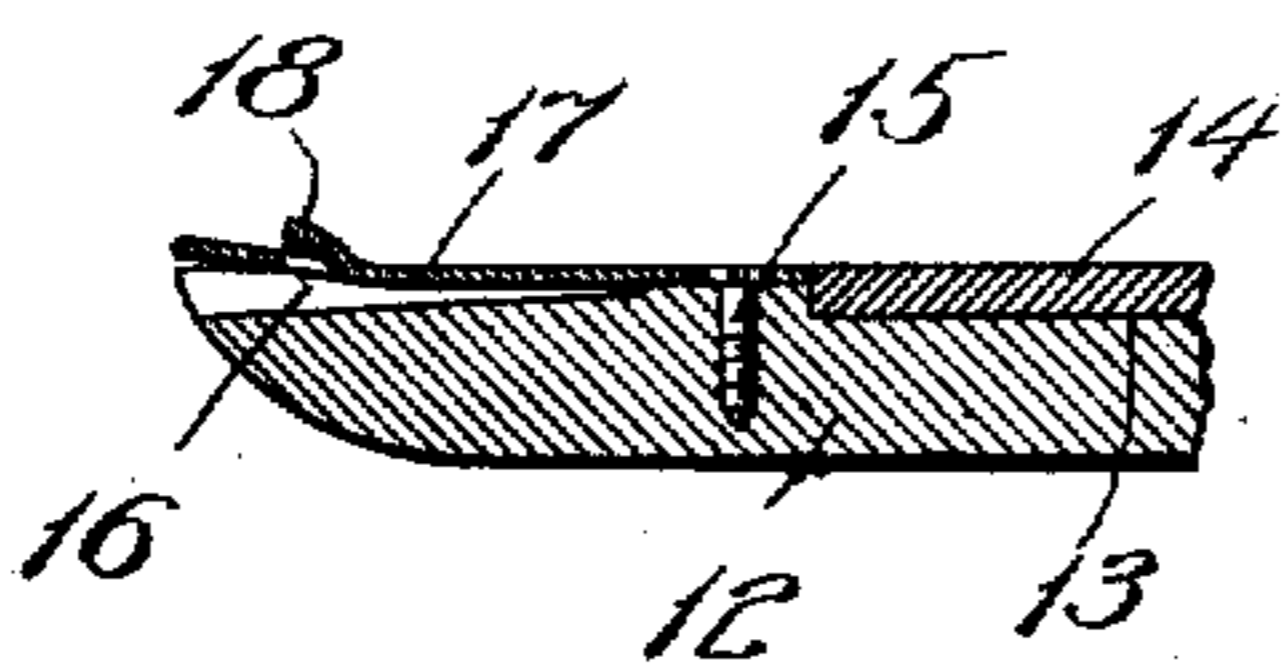
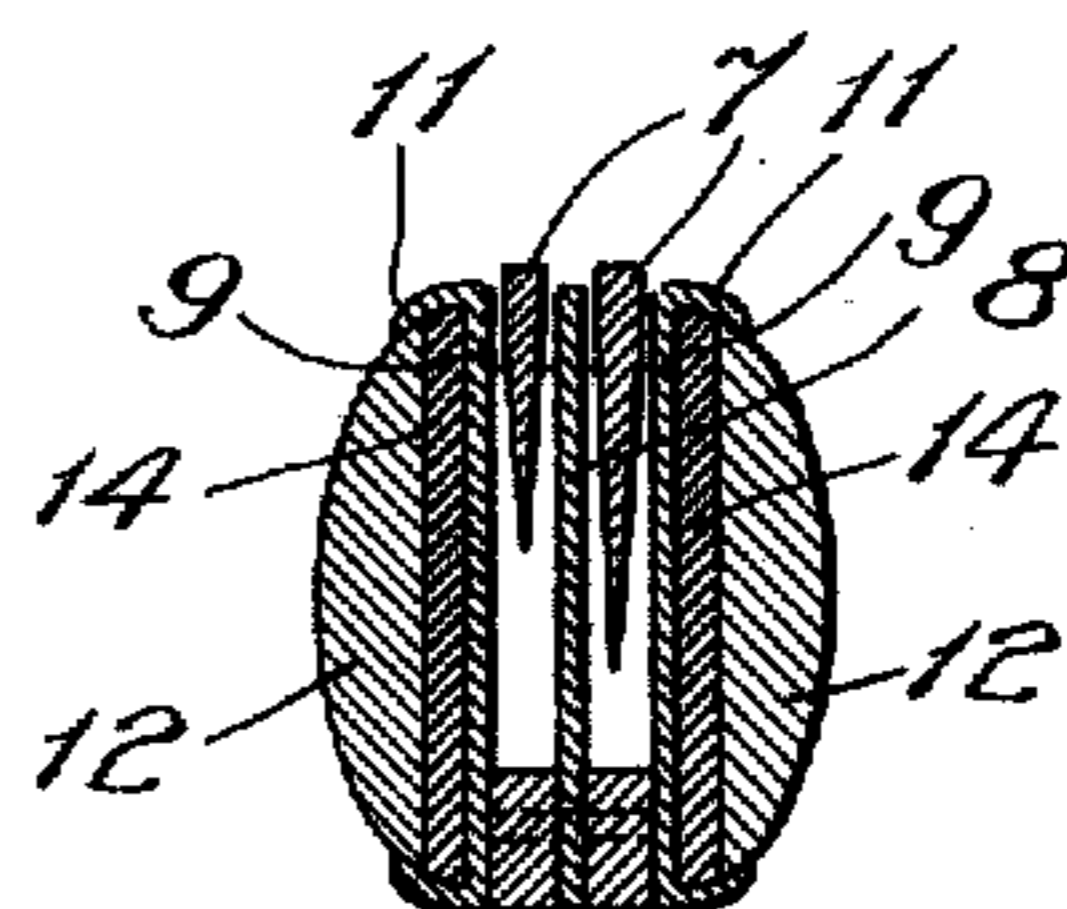


Fig. 6.



Witnesses:

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# UNITED STATES PATENT OFFICE.

EDWIN S. TIMMONS, OF CHICAGO, ILLINOIS.

## KNIFE.

No. 916,630.

Specification of Letters Patent.

Patented March 30, 1909.

Application filed March 7, 1908. Serial No. 419,692.

*To all whom it may concern:*

Be it known that I, EDWIN S. TIMMONS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Knives, of which the following is a specification.

My invention relates, more particularly, to an improvement in knives constructed in a manner to afford a removable and replaceable handle-insert for receiving a piece of whetting material for sharpening the knife-blades by removal from the knife-proper of a part thereof provided with an abrasive surface of suitable material or for receiving tools or the like in a pocket provided in the insert; and my object is to provide a simple, strong and inexpensive construction of knife of the general character above referred to.

Referring to the accompanying drawings--Figure 1 is a perspective view of a knife constructed in accordance with my invention; Fig. 2 is a face view of one of the sides of the knife illustrated in Fig. 1 with the handle-insert removed; Fig. 3 is a face view of the rear side of one of the removable handle-inserts; Fig. 4 is a side view of the insert illustrated in Fig. 3; Fig. 5 is a broken section taken at the line 5 on Fig. 3, viewed in the direction of the arrow and enlarged; and Fig. 6 is a section taken at the line 6 on Fig. 1 and viewed in the direction of the arrow.

The knife in connection with which I have chosen to illustrate my invention is of the four-bladed folding type illustrated comprising blades 7, a blade-partition 8 and side-plates 9, the blades being pivoted between the partition 8 and plates 9, as indicated at 10, 10. The side-plates 9 are each formed of sheet-metal with an inwardly turned flange 11 extending preferably about its lateral edges and one end, as illustrated, thereby affording a channel with an open end extending along the face of each plate and longitudinally thereof, it being preferred that the flanges 11 be formed integral with the plates 9 by the well-known stamping operation. The handle-inserts 12, which may be formed of wood, bone, pearl, metal, or any other suitable material, are of slab-shape, as illustrated, and are preferably adapted to be applied to the plates 9 by inserting them endwise into the open end of

the channels with which the plates are provided and sliding them along the faces of the latter to seat them in the desired position on the plates and in engagement, at their edge-portions, with the flanges 11. Each of the inserts 12 contains a recess 13, which, when the insert is to be used as a whetstone, contains a slab 14 of abrasive material, such as oil-stone, carborundum, or any other suitable material, secured therein to be flush with the rear face of the insert carrying it. The inserts 12 are removably secured to the plates 9 to permit them to be separated from the knife-proper at will and permit the whetting surface to be accessible for sharpening the blades of the knife.

I prefer to so construct the knife-parts described as to permit the inserts to readily slide into position on the plates and to provide a device on each insert for engaging with the plate carrying it for removably holding the inserts in position thereon, the construction of which preferred device is as follow: Fastened as by a screw 15 in a longitudinal recess 16 in the inner face of each insert 12 near one end thereof, is a strip 17 of spring-metal which normally extends beyond the inner face of the plate carrying it. This strip has a projection, or catch, 18 provided on one side, preferably formed by cutting a slit 19 in the metal of the strip and crosswise thereof and bending the adjacent metal to the position illustrated. The plates 9 have openings 20 in them into which the catches 18 on the respective inserts spring when the inserts are applied to the plates as described, the catches, by reason of the springiness of the metal, holding the inserts in place against accidental displacement. The ends of the plates 9 contain recesses 21 beyond which the strips 17 extend to permit them to be sprung for withdrawing the catches from the respective openings 20 in the plates when removal of the inserts is desired.

When it is desired to sharpen the blades of the knife the catches 18 are withdrawn from the openings in the plates by flexing the strips 17, thereby permitting the inserts to be drawn out of the channels in the plates 9 and used as an ordinary whet-stone, the replacing of the inserts in the handle, when the sharpening operation is finished, being accomplished in the manner heretofore described. When it is desired that the inserts

be adapted to carrying tools, or the like, the whet-stone 14 may be omitted and the recess in the insert be used for receiving tools.

It is manifest that the removable handle-inserts need not be provided on both sides of the knife, though in some cases this might be desirable, as, for instance, where it is desired that the knife be provided with abrasive surfaces of different degrees of fineness, or with a whetting surface on one side and a tool-receiving pocket on the other.

The flanges on the plates 9 serve to strengthen the latter to a great degree and, therefore, by providing the plates constructed as described, they may be made of relatively thin material, which is of great importance where it is desired to construct a serviceable knife with the least expense. A further advantage afforded by the flanged plate construction is that of dispensing with the usual metal handle tips which, when employed, must be soldered to the side-plates of the knife and thus increases the cost of constructing it.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a folding knife, the combination of blades, side-plates to which said blades are pivoted, one of said side-plates having integral flanges extending about three marginal edges thereof and affording a channel, and a removable and replaceable handle-insert adapted to enter the channel at its open end and be moved therein into position on the plate.

2. In a folding knife, the combination of blades, side-plates to which said blades are pivoted, one of said side-plates having integral flanges extending about three marginal edges thereof and affording a channel, a re-

movable and replaceable handle-insert adapted to enter the channel at its open end and be moved therein into position on the plate, and means for releasably securing said insert in position in the channel, for the purpose set forth.

3. A sheet-metal side-plate for the handle-portion of a knife having integrally formed flanges bent from the metal of the side-plate on three marginal edges thereof affording a channel adapted to receive a handle-insert, for the purpose set forth.

4. In a knife, the combination of its handle-portion provided with a channel, a removable and replaceable handle-insert adapted to enter said channel and be moved therein into position on the handle-portion, and a spring-catch carried by the insert adapted to automatically releasably lock the insert in position on the plate, for the purpose set forth.

5. In a folding knife, the combination of blades, side-plates to which the blades are pivoted, one of said side-plates being provided with integral inwardly tapering flanges extending about three marginal edges thereof and affording a channel, and provided with a catch-receiving opening, a removable and replaceable handle-insert adapted to enter the channel at its open end and be moved into position on the plate, and a spring-catch carried by the insert and provided with a projection adapted to register with and extend into said opening in the plate when the insert is seated in the channel to register with the plate.

EDWIN S. TIMMONS.

In presence of—

W. B. DAVIES,  
A. U. THORIEN.