

(No Model.)

J. THURNAUER.  
MEASURE ATTACHMENT FOR POCKET KNIVES.

No. 302,057.

Patented July 15, 1884.

FIG. 1

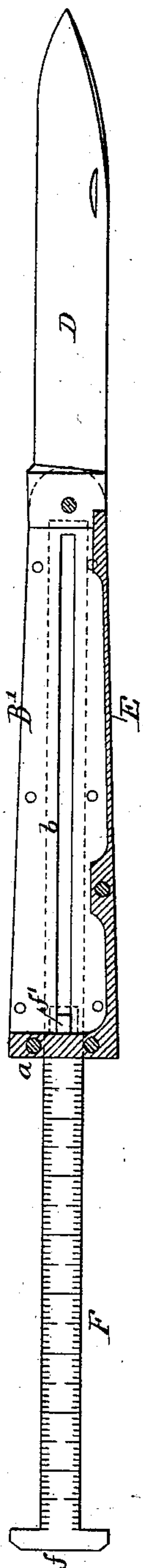
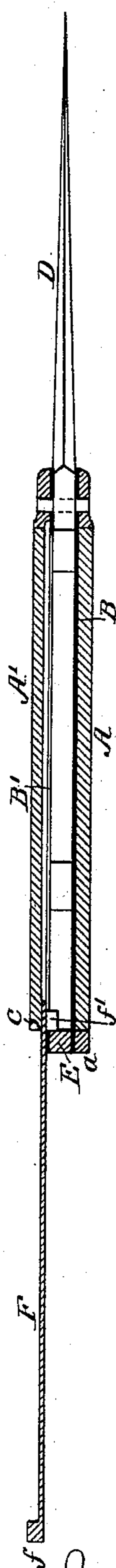


FIG. 2



Witnesses:  
John M. Clayton  
James F. Tobin

Inventor -  
Joseph Thurnauer  
by his Attys  
Howard Adams

# UNITED STATES PATENT OFFICE.

JOSEPH THURNAUER, OF BURGKUNSTADT, BAVARIA, GERMANY.

## MEASURE ATTACHMENT FOR POCKET-KNIVES.

SPECIFICATION forming part of Letters Patent No. 302,057, dated July 15, 1884.

Application filed September 4, 1883. (No model.) Patented in France July 4, 1883, No. 156,395; in Belgium July 18, 1883, No. 62,053; in England July 19, 1883, No. 3,551, and in Austria July 23, 1883.

*To all whom it may concern:*

Be it known that I, JOSEPH THURNAUER, of Burgkunstadt, Bavaria, Germany, and residing in Paris, France, have invented Improvements in or Additions to Pocket-Knives, of which the following is a specification.

My invention consists of improvements in the construction of that class of pocket-knives which are provided with a graduated measuring-rule, adapted to slide in the handle of the knife, as more fully described hereinafter.

In the accompanying drawings, Figure 1 is a longitudinal section of my improvement. Fig. 2 is a sectional view at right angles to that of Fig. 1.

The handle of the knife may be of any desired form and dimension, with horn, ivory, tortoise-shell, or other suitable side pieces, A A', applied to the usual sheet-metal side plates, B B'.

The knife may be provided with as many blades D as desired pivoted between the cheek-pieces at the ends of the side plates, B B', and acted on by the back-spring E. In one of the side pieces, A', is formed a longitudinal recess, to which is adapted a graduated rule, F, capable of being slid into and out of the pocket thus formed, and having at its outer end a T-head, *f*, at right angles to its length. The inner end of the measure is provided with a rectangular projection or stud, *f'*, adapted to a longitudinal guide-slot, *b*, in the side plate B',

so that no matter how far in or out the rule F may be drawn the parallelism of the T-head *f* with the squared end *a* of the knife-handle will always be maintained. The head *f* projects laterally from the side face of the measure, as shown in Fig. 2, and in the end of the side piece A' is formed a recess for the reception of the head when the rule is pushed entirely in, so that the head will be flush with the side plate, a beveled notch, *c*, being formed in the end of the side plate for the insertion of the finger-nail to draw out the measure.

The knife may also be provided with any additional number of blades, a corkscrew, saw, brad-awl, scissors, tooth-pick, or other instrument or appliance ordinarily combined with pocket-knives.

I claim as my invention—

The combination of the knife-handle having a slotted side plate, B', and a recessed side piece, A', with a sliding rule or measure adapted to the recess, and having a stud adapted to the slot in the side plate, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH THURNAUER.

Witnesses:

ALFRED COINY,

ROBT. M. HOOPER.