

K. J. WILSON.

KNIFE.

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936,592.

Patented Oct. 12, 1909.

Fig. 1.

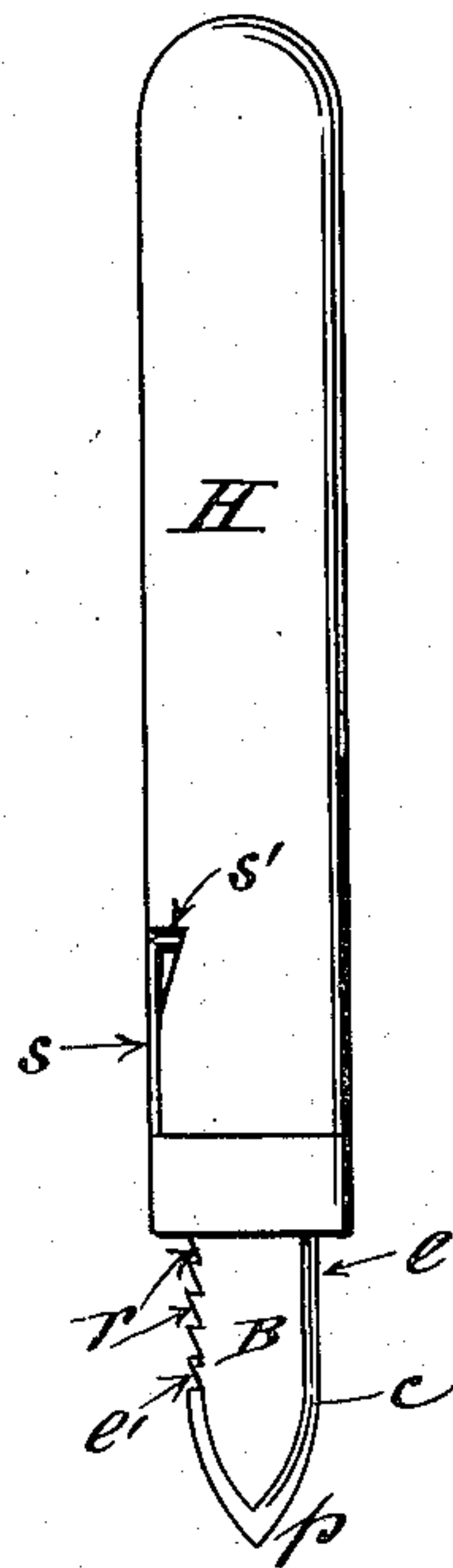
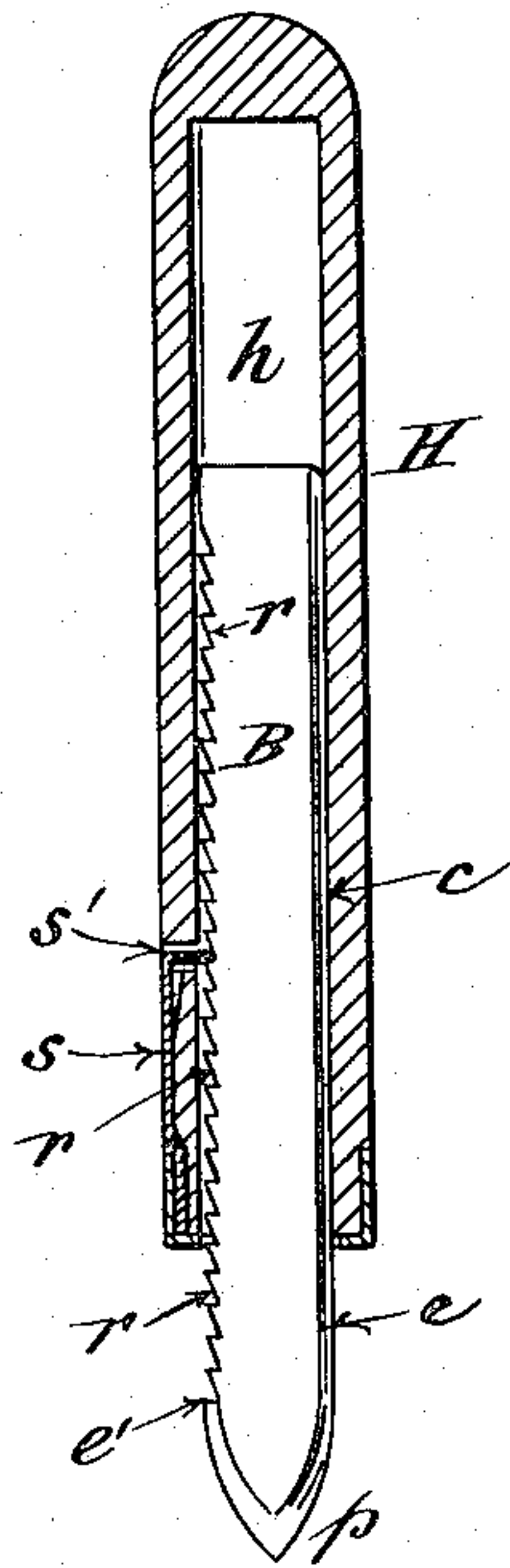


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

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KNIFE.

936,592.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, KENNETH JOHN WILSON, a subject of the King of Great Britain, residing in the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Knives, of which the following is a specification.

My improvements relate to the class of knives in which the blade is movable longitudinally in and with relation to the handle; and the invention consists in the specific construction and arrangement of parts hereinafter described and claimed, a distinguishing feature being the formation of one edge of the blade with inwardly inclined ratchet teeth in conjunction with a spring pawl on the handle, whereby the blade may be readily jarred, shaken or pulled out of the handle, more or less as required, but cannot be pushed inward without drawing back the spring pawl. Being designed more particularly for use as a printer's patch up or over-lay blade, this feature is of special importance since it admits of the projection and manipulation of the blade by the hand only, while affording ample protection for the blade when not required for immediate use.

In the accompanying drawings, Figure 1, is an elevation of the device with the blade partly protruding; Fig. 2, is a longitudinal section of the handle, showing the blade in elevation.

The handle H, is formed with the longitudinal recess or socket *h*, of sufficient length and capacity to receive and inclose the whole of the blade B, when not desired for use, and when it is desired to protect its point *p*, and cutting edge *c*, from contact with extraneous objects. The point *p*, of the blade is convergent centrally, and is double edged, to act as an incisor for printers' use in patch up and over or under lay work. One longitudinal edge *e*, is also formed as a cutting edge which may be applied for the uses to which ordinary pocket knife blades are employed. The other longitudinal edge *e'*, is formed with ratchet teeth *r*, which are inclined rearward, or away from the pointed end of the blade. Contacting with these ratchet teeth *r*, is a spring pawl *s*, which automatically engages the lateral shoulders of the ratchet

teeth *r*, and hold the blade against longitudinal movement in one direction,—namely in the direction opposite to that of the pointed end *p*,—while affording but slight resistance to the movement of the blade in the opposite direction, or outward,—since the inclined sides of the ratchet teeth ride easily under the spring pawl, which latter has but slight resisting power to motion in that direction while sufficiently stiff to hold its shoulder *s'*, locked with the transverse shoulder of any of the ratchet teeth against movement inward, or in the opposite direction. In other words the blade may be either shaken, jarred or drawn out of the handle to any extent desired, but cannot be pushed into the handle until the shoulder *s'*, of the spring pawl *s*, is withdrawn from the ratchet teeth *r*.

What I claim as my invention and desire to secure by Letters Patent is,

1. In a knife of the character designated, the combination of a pointed blade formed on one edge with a series of ratchet teeth, having shoulders transverse to the blade and with sides inclining inward therefrom toward the pointed end of the blade, and a handle formed with a socket to receive the blade, and a spring pawl on the handle arranged to engage the transverse shoulders of the ratchet teeth and prevent the pushing in of the blade while allowing the blade to be pulled, jarred or shaken outward for the purpose described.

2. In a knife of the character designated, the combination of a pointed blade formed with a longitudinal cutting edge on one side and on the other edge with a series of ratchet teeth having shoulders transverse to the blade and with sides inclining inward therefrom toward the pointed end of the blade, a handle formed with a socket to receive the blade, and a spring pawl on the handle arranged to engage the transverse shoulders of the ratchet teeth and prevent the pushing in of the blade while allowing the blade to be pulled, jarred or shaken outward, for the purpose described.

3. In a knife of the character designated, the combination of a central convergent point, a longitudinal cutting edge on one side and on the other side with a series of ratchet teeth having shoulders transverse to

the blade and with sides inclining inward therefrom toward the pointed end of the blade a handle formed with a socket to receive the blade, and a spring pawl on the
5 handle arranged to engage the transverse shoulders of the ratchet teeth and prevent the pushing in of the blade while allowing

the blade to be pulled, jarred or shaken outward for the purpose described.

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Witnesses:

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