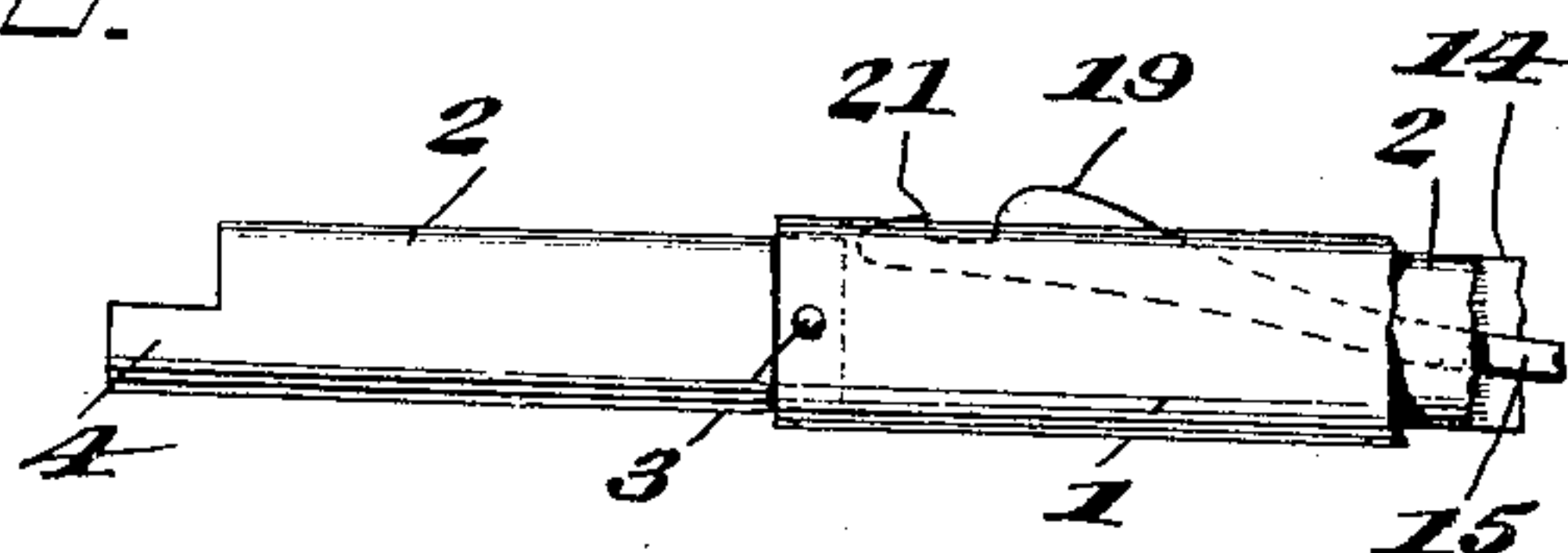
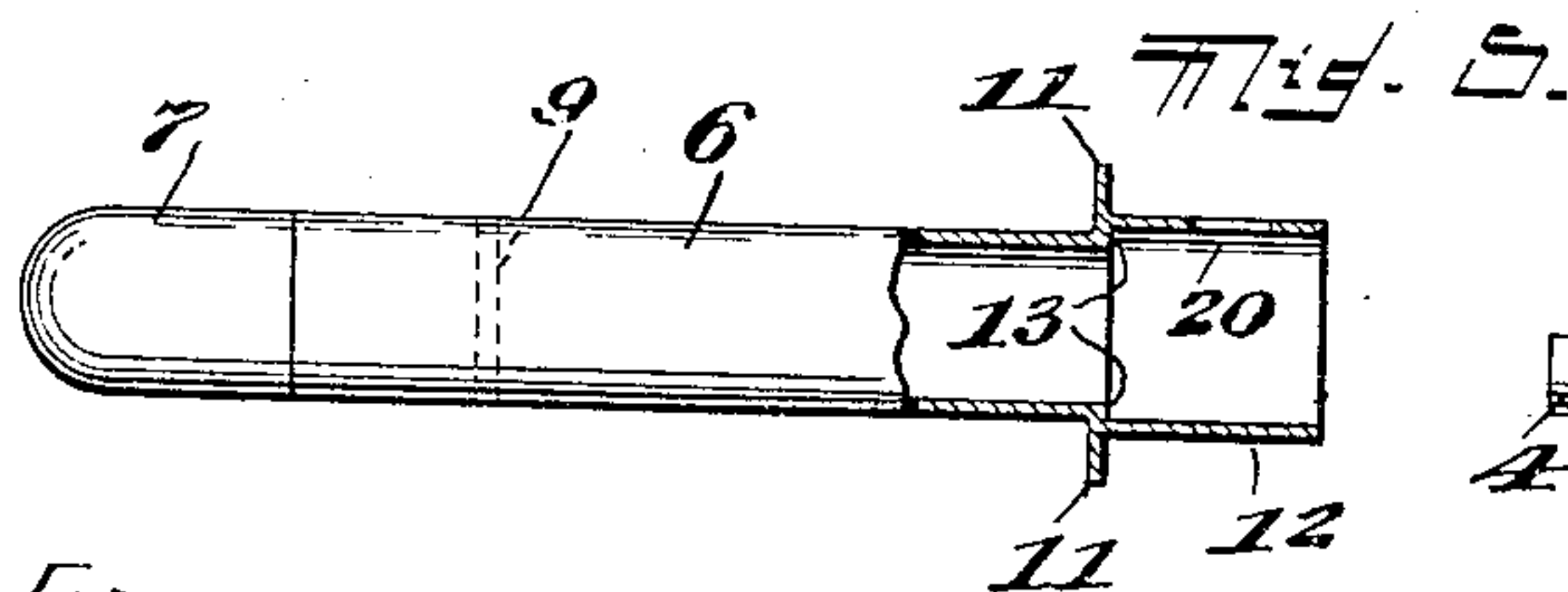
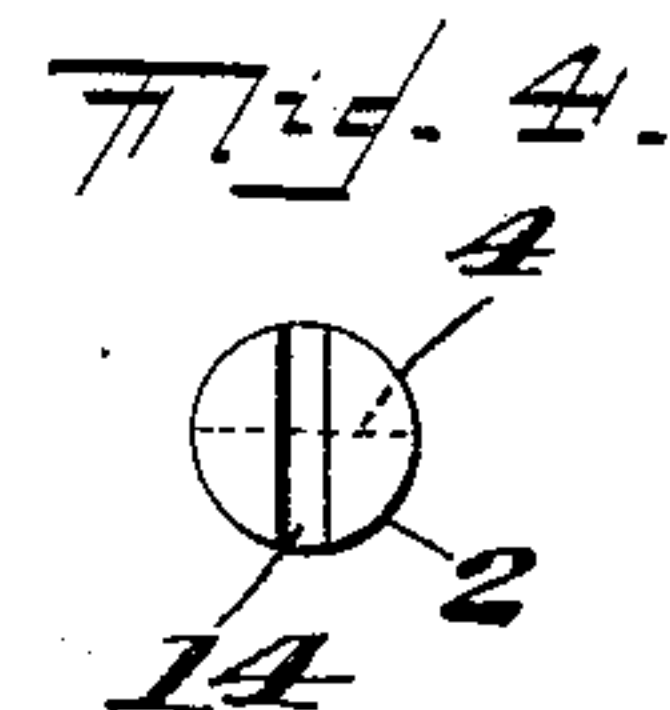
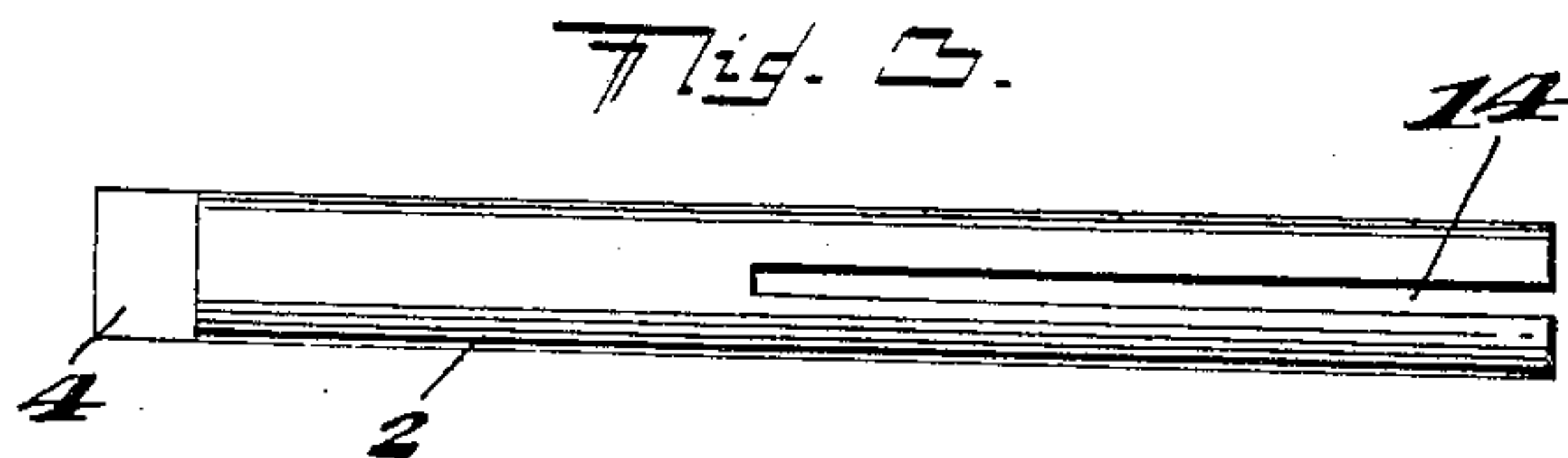
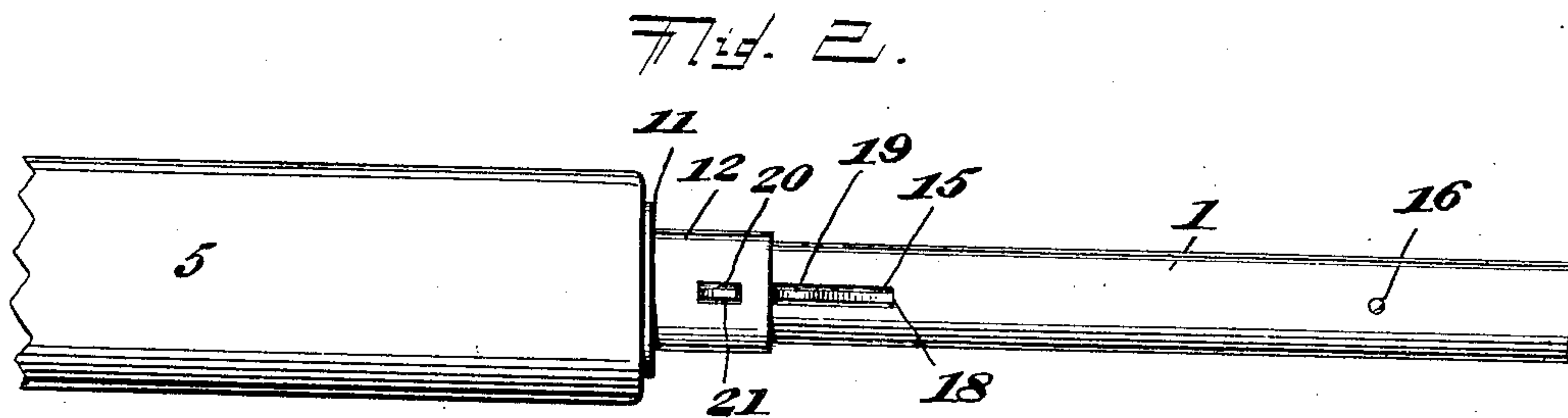
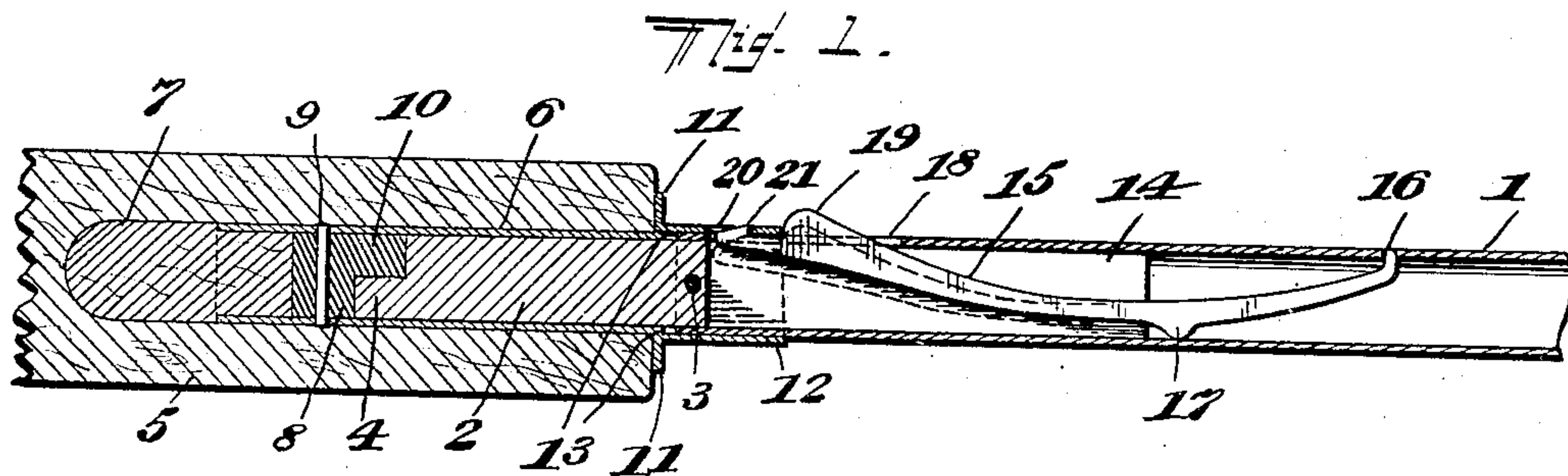


No. 829,719.

PATENTED AUG. 28, 1906.

E. C. KUHN.
DETACHABLE HANDLE FOR UMBRELLAS, &c.
APPLICATION FILED APR. 22, 1905.



Witnesses

Arthur Kline
William Schuchardt

Inventor

Edward C. Kuhn,
by John Elias Jones,
his Attorney.

UNITED STATES PATENT OFFICE.

EDWARD C. KUHN, OF CINCINNATI, OHIO.

DETACHABLE HANDLE FOR UMBRELLAS, &c.

No. 829,719.

Specification of Letters Patent.

Patented Aug. 28, 1906.

Application filed April 22, 1905. Serial No. 256,848.

To all whom it may concern:

Be it known that I, EDWARD C. KUHN, a citizen of the United States of America, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Detachable Handles for Umbrellas or the Like, of which the following is a specification.

This invention relates to certain improvements in that class of fastenings which are more particularly designed for the attachment of handles to the sticks or rods of umbrellas, canes, and the like, and has for its object to provide a fastening of this general character of a simple and inexpensive nature and of a strong and compact construction by means of which a handle may be securely held in position upon a cane or umbrella stick or rod, while being capable of ready removal therefrom when desired, so that any desired handle may be applied for use to any desired cane or umbrella stick or rod to meet the needs or taste of the purchaser or user.

The invention consists in certain novel features of the construction, combination, and arrangement of the several parts of the improved fastening whereby certain important advantages are attained and the device is rendered simpler, cheaper, and otherwise better adapted and more convenient and desirable for use, all as will be hereinafter fully set forth.

The novel features of the invention will be carefully defined in the claim.

In the accompanying drawings, which serve to illustrate my invention, Figure 1 is a sectional view taken longitudinally and axially through the end portion of an umbrella stick or rod and extended through the adjacent portion of the handle and illustrating the application of my improved fastening thereto for use. Fig. 2 is an elevation of the parts seen in Fig. 1. Fig. 3 is a view showing detached and in side elevation the longitudinally-slotted member or kerfed plug for application to the end of the rod or stick according to my invention. Fig. 4 is an end view of the member shown in Fig. 3 looking toward the slotted end thereof, and Fig. 5 is a view showing, in side elevation and partly in section, the members of the fastening for application to the handle and stick or rod of the umbrella or cane, the said members being illustrated as disengaged from each other.

As seen in the views, 1 indicates the stick or rod of an umbrella, cane, or the like to

which my improved fastening is applied for use, said stick or rod having at its end portion a hollow or bore wherein is held a cylindrical member or plug 2, which may conveniently be formed from a length or section of metal rod, one end portion of which is held within the bore or hollow of the rod or stick 1 by means of a transverse pin or rivet 3 or the like, while the other end of said member 2 protrudes beyond the end of the stick or rod 1, as seen in Figs. 1 and 5, and has at one side a notch or cut-out part whereby a projecting tongue or lug 4 is produced at the opposite side of said projecting end of the member.

5 indicates that portion of the umbrella or cane handle which is adjacent to the stick or rod 1, and said part 5 is formed with an axial recess or bore in which is received a casing member 6 of tubular form and of a diameter to snugly fit in said bore, being provided at its inserted extremity with a wooden or other plug or pin 7 in a well-known way adapted to be securely held by means of glue or cement within the bore of the handle for the secure attachment of the casing member 6 therein.

Within the hollow of the tubular casing member 6 is arranged a locking piece or block 8, preferably formed from metal and held in position by means of a transverse pin or rivet 9, as seen in Fig. 1, and provided with a lug or projection 10 at one side adapted to be engaged with the notch or cut-out portion at the projecting end of the member 2 upon the stick or rod 1, and when said member 2 is inserted within the casing member 6, as seen in Figs. 1 and 2, and is therein turned so that the parts 4 and 10 overlap and interlock with each other it will be evident that turning of the member 2 within the casing member 6, carried by the handle, is effectively prevented.

The casing member 6, as herein shown, is formed with an annular flange or head 11, extended around its outer side and adapted for engagement upon the extremity of the handle 5 and beyond said annular flange or head 11. Said member 6 is formed with an integral portion or extension 12 of increased diameter, which protrudes beyond the end of the handle 5 and is adapted to receive within its bore or hollow the extremity of the stick or rod 1, as seen in Fig. 1.

13 indicates an annular shoulder or seat which is produced within the inner end of the extension 12 at the junction of the bore of the extension 12 with the reduced bore of the bore portion of the casing member 6.

That end portion of the member 2 which is held within the hollow or bore of the stick or rod 1 is formed with a longitudinal kerf or slot 14, extended diametrically through it with one end open at the inserted extremity of said member, and said slot forms a guide-way wherein is loosely held a spring dog or catch 15, herein shown as stamped or cut from elastic or spring sheet material, with a lateral projection or finger 16, engaged in an aperture in the wall of the stick or rod 1 for holding said dog or catch against slipping endwise within the stick or rod. The dog or catch 15 is longitudinally bent or curved, so as to cause it to extend diametrically across the hollow or bore of the stick or rod 1 in the direction of the longitudinal slot or opening 14 in member 2, the opposite ends of said catch or dog being located at one wall of the rod or stick while the central portion of said dog or catch is adjacent to the opposite wall of the rod or stick, and said central portion of the catch or dog has a lug or projection 17 integrally produced upon it and which by engagement upon the adjacent wall of the rod or stick 1 forms a fulcrum upon which is adapted to swing the resilient end portion 19 of the dog or catch which is located opposite to that end whereat the lug or projection 16 is produced. The said resilient end portion 19 of the dog or catch 15 is adapted for movement within the kerfed or slotted opening 14 of the member 2, the walls of said opening guiding said end 19 of the dog or catch, and said resilient end 19 is provided with a thumb-piece which is arranged to protrude through a slotted opening 18, produced in the wall of the rod or stick 1, the end portion 19 having beyond said thumb-piece a terminal catch projection 21 for locking engagement within an opening 20, produced in the casing extension 12 and adapted for alinement with the opening 18 in the rod or stick when the latter is inserted in the casing member in the position shown in Figs. 1 and 2. The extremity of the end portion 19 of the dog or catch is beveled, as seen in Fig. 1, so that it may slide freely within the end of the casing extension 12 when the rod or stick is slipped within the member 6.

By this construction and arrangement of the parts it will be seen that when the end of the rod or stick 1, carrying the member 2 and catch or dog 15, is slipped within the casing member 6, carried by the handle 5, the beveled end face of the catch 15 will engage inside casing extension 12, so as to flex the dog or catch sufficiently to permit the full introduction of the member 2 and of the extremity of the rod or stick within the casing 6 and its enlarged extension 12, whereby the parts 4 and 10 are brought into engagement to hold the members against relative turning movement, and at the same time the catch projection 21 will be engaged with the opening 20

of the casing extension to securely hold the stick or rod against endwise movement relative to the handle.

When it is desired to disengage the handle from the rod or stick 1, this can be readily accomplished by pressing upon the thumb projection of the resilient end portion 19 of the dog or catch 15, whereby said resilient end 19 is flexed upon the fulcrum projection 17 sufficiently to effect the disengagement of catch projection 21 from the opening 20 of the casing extension, whereby the handle 5 may be slipped off of the rod or stick, so as to permit of being replaced by another handle provided with similar fastening devices.

The improved fastening constructed as above described is of an extremely simple and inexpensive nature and is especially well adapted for use in connection with umbrellas, canes, and the like, where it is desirable to employ detachable handles in order that the purchaser may select a handle in accordance with his tastes and needs irrespective of the character of the umbrella or cane to which such handle is to be applied. The improved fastening is also especially adapted for use by reason of the security with which it permits of holding the handle in position upon the cane or umbrella stick or rod to which it is applied both against turning and endwise strains, while at the same time permitting of the ready attachment of the handle to the cane, umbrella, or other article or its equally ready and convenient removal therefrom. It will also be obvious from the above description that the improved fastening is capable of some modification without material departure from the principles and spirit of the invention, and for this reason I do not desire to be understood as limiting myself to the precise form and arrangement of the several parts of the device herein shown in carrying out my invention in practice.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

A fastening comprising a casing member having a bore and provided with an extension having an opening in its wall, a rod or stick the end of which is insertible in the casing extension, said rod or stick having in its wall a perforation adjacent to said insertible end, a plug member having a longitudinally kerfed or slotted end portion attached to and rigidly held in the insertible end of the rod or stick, the opposite shouldered end of said plug member projecting from the rod or stick for insertion in the bore of the casing, a shouldered block rigidly held in said casing member and reciprocally engaged by the shouldered end of the said plug member, and a resilient catch longitudinally curved, partially housed and movable in the kerf or slot of said insertible plug member with a projection at

one end engaged with the perforation in the wall of the rod or stick and with a catch projection at its opposite end engageable with the opening in the wall of the casing extension, the central part of said catch being provided with a fulcrum projection engaged on the side of the rod or stick.

Signed at Cincinnati, Ohio, this 20th day of April, 1905.

EDWARD C. KUHN.

Witnesses:

JOHN ELIAS JONES,
WILLIAM SCHUCHARDT.