

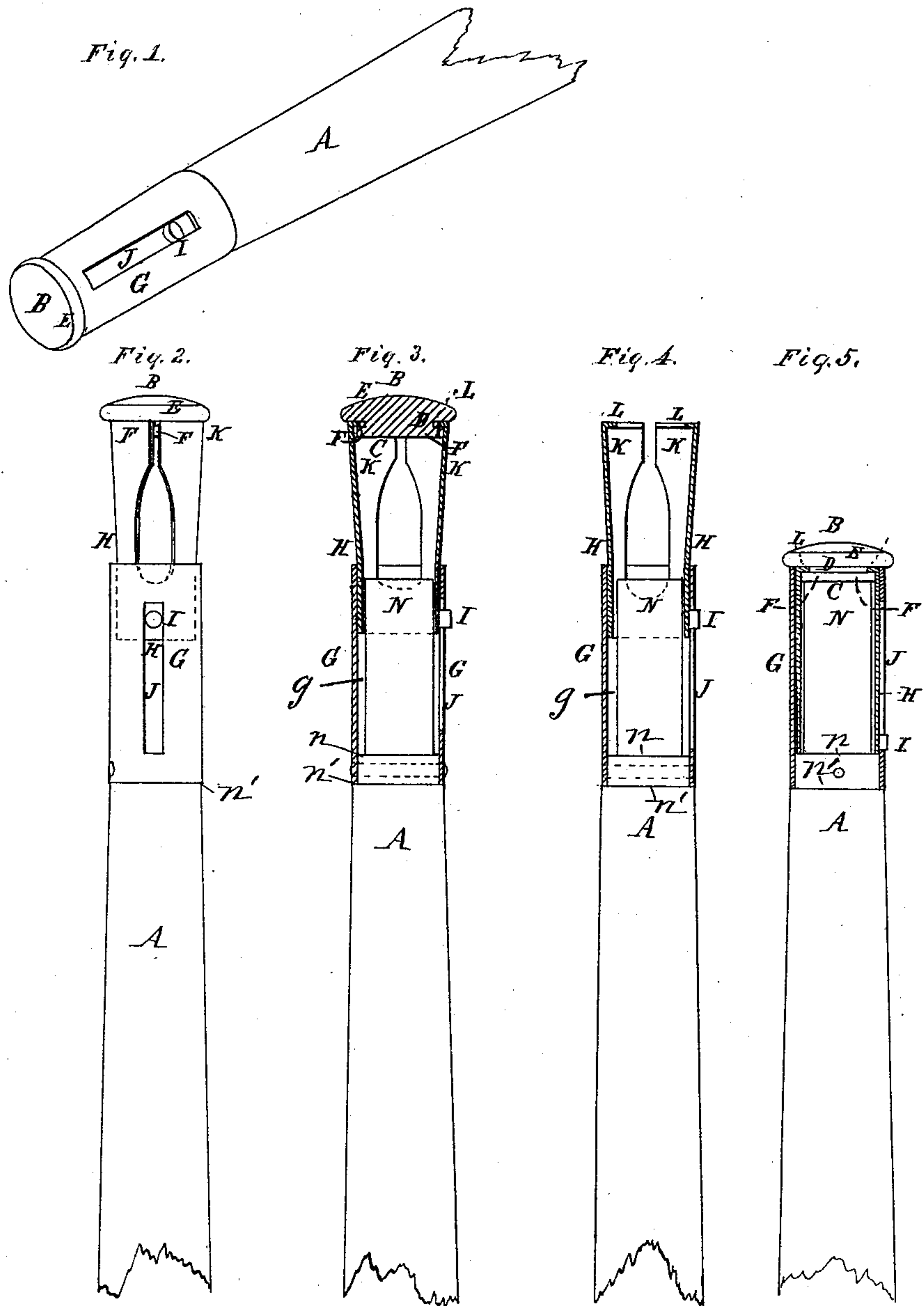
(No Model.)

E. FERCHLAND.

FASTENING FOR BILLIARD CUE TIPS.

No. 338,724.

Patented Mar. 30, 1886.



WITNESSES:

Reinhold Bocklen
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INVENTOR

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FASTENING FOR BILLIARD-CUE TIPS.

SPECIFICATION forming part of Letters Patent No. 338,724, dated March 30, 1886.

Application filed May 25, 1885. Serial No. 166,671. (No model.)

To all whom it may concern:

Be it known that I, ERNST FERCHLAND, a citizen of the United States of America, and a resident of the city of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Leather-Pad Fastenings of Billiard-Cues, of which the following is a specification.

The invention relates to improvements in the means of fastening the pad or tip on the end of the rod; and it consists in the construction and arrangement of certain parts hereinafter described, and pointed out in the appended claim.

Figure 1 represents a perspective view of the invention. Fig. 2 is a side view of the same with the tip-securing device extended. Fig. 3 is a side view of the invention with the tip and securing devices extended and in section. Fig. 4 is a view similar to Fig. 3, but with the tip removed; and Fig. 5 is a side view of the invention with the tip and securing device drawn inward and in section.

Referring to the accompanying drawings by letter, A designates a billiard-cue having the end N upon which the pad rests so reduced as to form the two circumferential shoulders *n* and *n'*.

G is a ferrule secured in the end N of the cue, with its inner edge abutting against the shoulder *n'* and forming the circumferential chamber *g* with the end of the cue above the shoulder *n*, as shown.

J is a longitudinal slot in the ferrule for a purpose hereinafter explained.

H is a sleeve, the lower end of which fits snugly within the chamber *g*, and is provided with a pin, I, on its exterior, which pin enters the slot J, and prevents the sleeve leaving the end of the cue. The upper and middle portions of the sleeve are cut longitudinally so as to form the curved spring-plates K, preferably four in number, and provided with the flanges L, turned inward at right angles from the upper edges.

B is a tip of leather, rubber, or other suitable material having the usual convex head,

E, below which is the circumferential groove D, which is formed between the head E and the circumferential flange F. The plates K are cut away on each side below their ends, as shown, to allow them to spring with proper ease.

The method of securing the tip in place is as follows: The sleeve H is drawn out to its fullest extent, and the flanges L inserted in the groove D. The sleeve is then drawn or shoved within the chamber G until the base of the tip abuts against and is supported by the end of the cue. As the base of the tip is somewhat wider than the end of the cue, when the sleeve is drawn in it is compressed laterally and binds firmly the flanges L, which are driven into and bite the bottom of the groove D. When the tip is injured or worn, the sleeve is withdrawn and another tip substituted.

I am aware that billiard-cues have had the tips or pads secured to their ends by devices which allow the said tip to be taken off when worn and another tip substituted. Most of these device are constructed to screw on the end of the cue, as in English Patent No. 1,718 of 1856, and in Griffin No. 75,751. I do not claim, broadly, such a device; nor do I claim one that screws on the end of the cue.

Having described my invention, I claim—

The combination, with the cue A, provided with the shoulders *n n'*, and the ferrule G, provided with the slot J, and forming the chamber *g* with the end of the cue, of the sleeve H, having the pin I for engagement in the slot J, the spring-arm plates K, provided with the flanges L, and the tip B, provided with the head E, flange F, and groove D, for engagement with the flanges L, all constructed and adapted to operate, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 22d day of May, 1885.

ERNST FERCHLAND.

Witnesses:

REINHOLD BOEKLEN,
C. F. GRIFFEN.