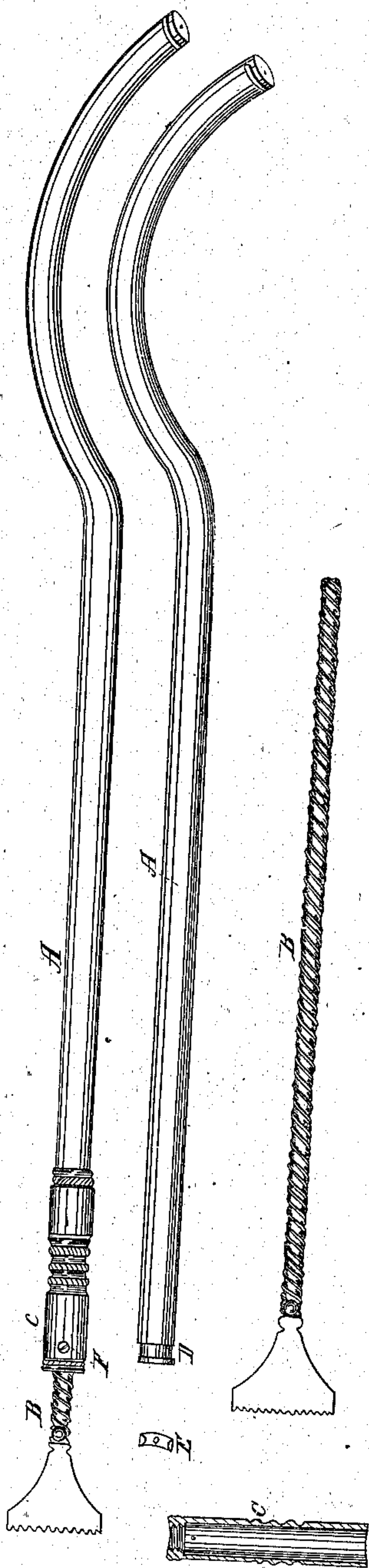


No. 35,303.

PATENTED MAY 20, 1862.

H. G. DAVIS.
EXTENSION SPLINT.



Witnesses

Wm. H. Dickinson

Wm. H. Cannon

Inventor

Henry G. Davis

UNITED STATES PATENT OFFICE.

HENRY G. DAVIS, OF NEW YORK, N. Y.

EXTENSION-SPLINT.

Specification of Letters Patent No. 35,303, dated May 20, 1862.

To all whom it may concern:

Be it known that I, HENRY G. DAVIS, physician and surgeon, of the city, county, and State of New York, have invented a certain
5 new and Improved Splint; and I do hereby declare that the following is a full and exact description of the same, which I have prepared with a view to the obtaining of Letters Patent for the same.

10 My invention is especially adapted for use in those cases where a splint is required to be changed to different lengths and to sustain a strain extending the part to which it is applied as in many forms of chronic
15 disease.

The accompanying drawings form a portion of this specification and represent my improved splint adapted for making extension upon the limb in treating morbus cox-
20 arius.

Figure 1 represents my splint complete, ready to be connected to the elastic parts. The additional Figs. 2, 3, 4, and 5, represent separate details.

25 Similar letters designate like parts in all the drawings.

To enable others skilled in the art to make and use my invention I will proceed to describe it.

30 The upper portion A is a metallic tube, a form of material which combines strength with lightness while it will also admit into its interior at the lower end another part B upon which is cut a screw thread as represented. The part B may be either solid or
35 hollow, I prefer to make it also of metallic tubing. Its diameter outside must be less than the inside diameter of A so that it may slide freely therein.

40 C is a third piece of metal of the form represented. A portion is threaded to correspond with the thread on the rod B. The remainder plain on its interior and adapted to fit easily around the exterior of the tube
45 A. Its exterior may be ornamented in any manner desired, and adapted to be easily held and turned by the fingers or by any suitable wrench.

In the exterior of A near its lower end I
50 turn a shallow groove D and into this groove adapt a piece of metal E adapted to slide around therein. The part C is fitted over the end of A after E is inserted in the groove D and both C and E are perforated
55 as represented to receive a screw F. The latter secures the parts together, so that by reason of the piece E being unable to escape

from the groove D, and the screw F entering into the hole in the piece E the nut C is unable to escape from or to slide length- 60 wise on A but is free to turn around it to any extent desired. Turning the nut C in one direction causes the splint to increase its length by thrusting the part B out from A, while turning in the opposite direction 65 draws B further into A and diminishes the length of the splint. The nut may be turned as little as is desired and allows a very delicate adjustment while it also is able without additional device to retain the 70 parts for any period in a given position.

My splint is cheaper, lighter, and capable of more delicate adjustment of the length than any before known to me. I invented and gave freely to the profession some years 75 since the use of elastic extension with several different forms of splints for its application and with which the splint here represented is intended to be used, but although that system of treating the affection 80 designated is now familiar to the profession the splints have always been encumbered with rack and pinion and with a pawl or its equivalent for retaining the parts in position. 85

The importance of simplicity in the construction, and especially of lightness, in apparatus of this kind, is readily apparent. The perfect facility with which my splint may be extended to any required small ex- 90 tent as compared with the previous devices is also very marked, and the absence of entangling projecting portions, and the almost entire immunity from liability to derangement, constitute further very important ad- 95 vantages due to the peculiarity of my invention. My invention is also better adapted to be produced very cheaply by machines than any of the previously known constructions. 100

Having now fully described my invention what I claim as new therein and desire to secure by Letters Patent is—

The within described splint composed of the tube A, threaded part B and nut or 105 equivalent C, as a new article of surgical apparatus, the same being adapted to operate in the manner and so as to realize the advantages herein set forth.

HENRY G. DAVIS.

Witnesses:

WM. H. DICKINSON,
WM. J. CRUMM.