

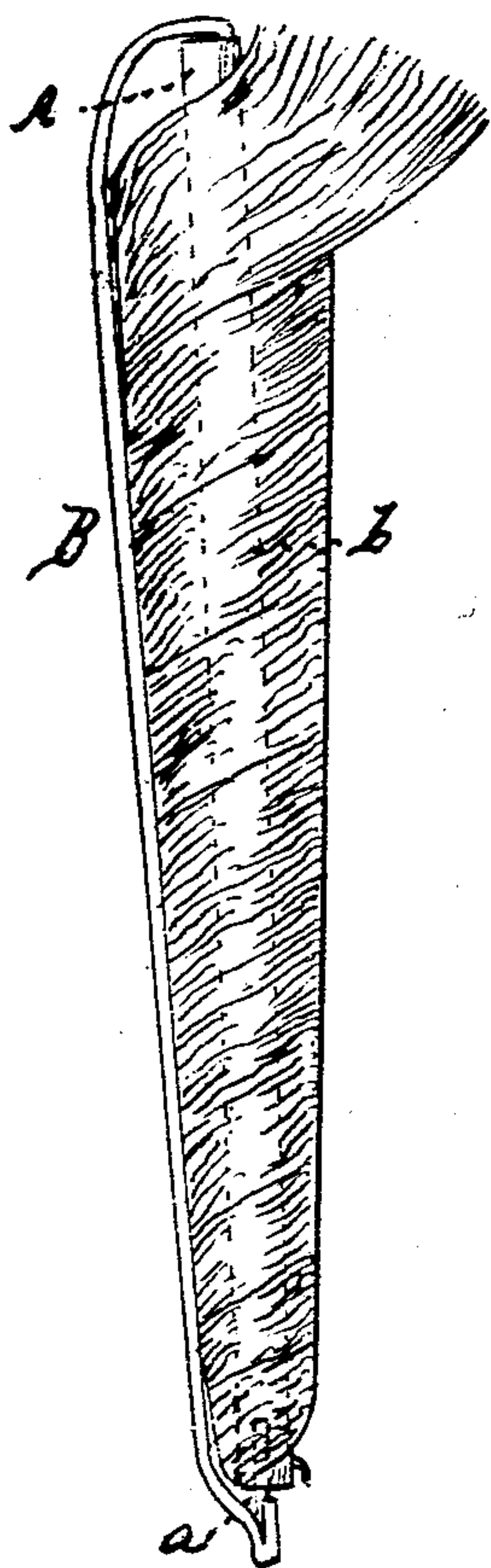
*F. Arnold.*

*Hair Curler.*

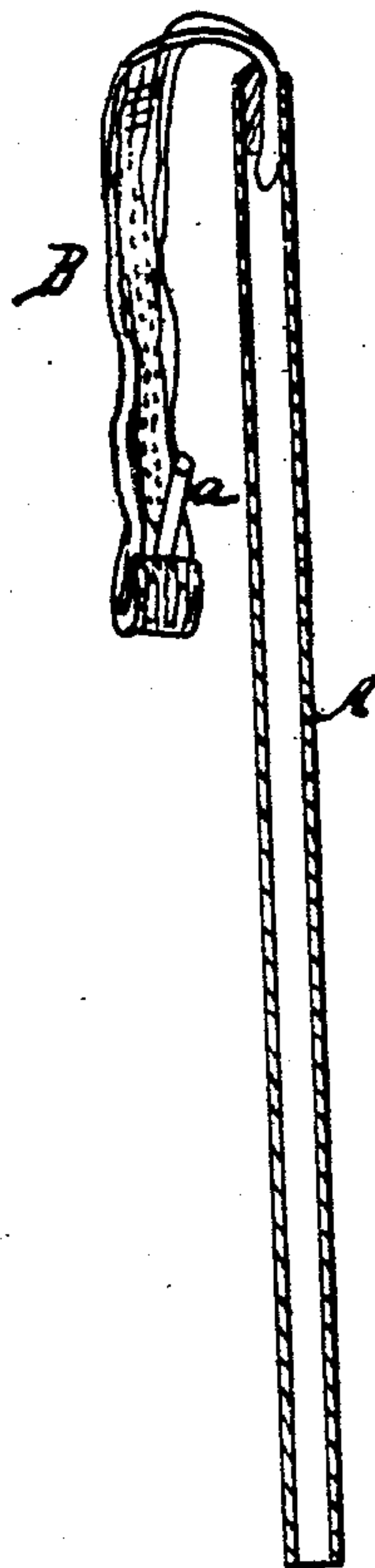
*Nº 19228.*

*Patented Feb. 2. 1858.*

*Fig. 1*



*Fig. 2.*



# UNITED STATES PATENT OFFICE.

FRANCIS ARNOLD, OF MIDDLE HADDAM, CONNECTICUT.

## CLAMP FOR HOLDING LADIES' HAIR IN CURL.

Specification of Letters Patent No. 19,228, dated February 2, 1858.

*To all whom it may concern:*

Be it known that I, FRANCIS ARNOLD, of Middle Haddam, in the county of Middlesex and State of Connecticut, have invented  
5 a new and useful Improvement or Device for Curling Ladies' Hair; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making  
10 a part of this specification, in which—

Figure 1, is a view of the device showing the manner in which it is used or applied. Fig. 2, is a longitudinal central section of ditto.

15 Similar letters of reference indicate corresponding parts in the two figures.

This invention is designed to supersede the use of papers for curling ladies hair by means of a "pinch" as it is technically  
20 termed by hair dressers. At present the "pinch" is given by wrapping portions or locks of the hair around bits of paper, and twisting the ends of the papers to prevent the hair from unwinding casually.

25 The invention consists in the employment or use of thin metal tubes, provided each with an elastic strap or an equivalent device for a fastening and used or applied as hereinafter shown.

30 To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A represents a metal tube constructed of thin sheet metal, said tube being of any suitable dimensions say from 4 to 6 inches in  
35 length and from  $\frac{3}{16}$  to  $\frac{1}{4}$  inch in diameter. The tube may be constructed of iron lacquered or varnished to prevent oxidation.

To one end of the tube A, an elastic strap B is permanently attached, and to the opposite end of said strap a pin (a) is secured.  
40 The strap B, may be constructed of india rubber or other elastic material and by stretching the same the pin (a) may be inserted in the opposite end so that the strap  
45 will be taut by the side of the tube A.

Any proper number of tubes A are provided and a lady in using them divides her hair as usual into locks of usual thickness

and wraps a lock around each tube. When 50 a lock is fully wound around a tube the pin (a) of the strap is inserted in the open end of the tube and the strap will bear or press against the lock to prevent it from casually unwinding from the tube. In Fig. 1, a lock 55 of hair (b) is shown wound around a tube and secured to the tube by the elastic strap B.

By the above improvement the hair may be wound or done up for curling very expeditiously much more so than by the usual 60 papers, and to remove the tubes all that is necessary is to unloosen or detach the straps B from the tubes at one end by removing the pins (a) and then slightly untwisting the hair so as to loosen the tubes within the 65 locks that they may be readily withdrawn therefrom. The curls are not at all injured or their twist is not at all destroyed in removing the tubes, whereas when papers are used the locks require to be wholly un- 70 twisted in order that the papers may be removed. Again when the hair is "done" up in papers the head presents an unsightly appearance and hence ladies generally take advantage of night for the purpose 75 as the hair requires to remain done up in twist or some time before the papers can be removed and the proper degree of twist or curl given the hair. By my improvement the hair when done up with the tubes 80 does not have a bad appearance the ringlets of course do not hang as free as when they are withdrawn but still a lady would not hesitate to appear before a friend with her hair thus prepared for curling. 85

Having thus described my invention, I claim and desire to secure by Letters Patent, as an improved article of manufacture—

The within-described device for curling the hair, consisting of a tube A, constructed 90 as shown, and provided with elastic straps B, or their equivalents, for the purpose set forth.

FRANCIS ARNOLD.

Witnesses:

S. K. SELDEN,  
ELIAS SELDEN.