

(No Model.)

E. L. BOOTH.

BUGGY TOP.

No. 321,945.

Patented July 14, 1885.

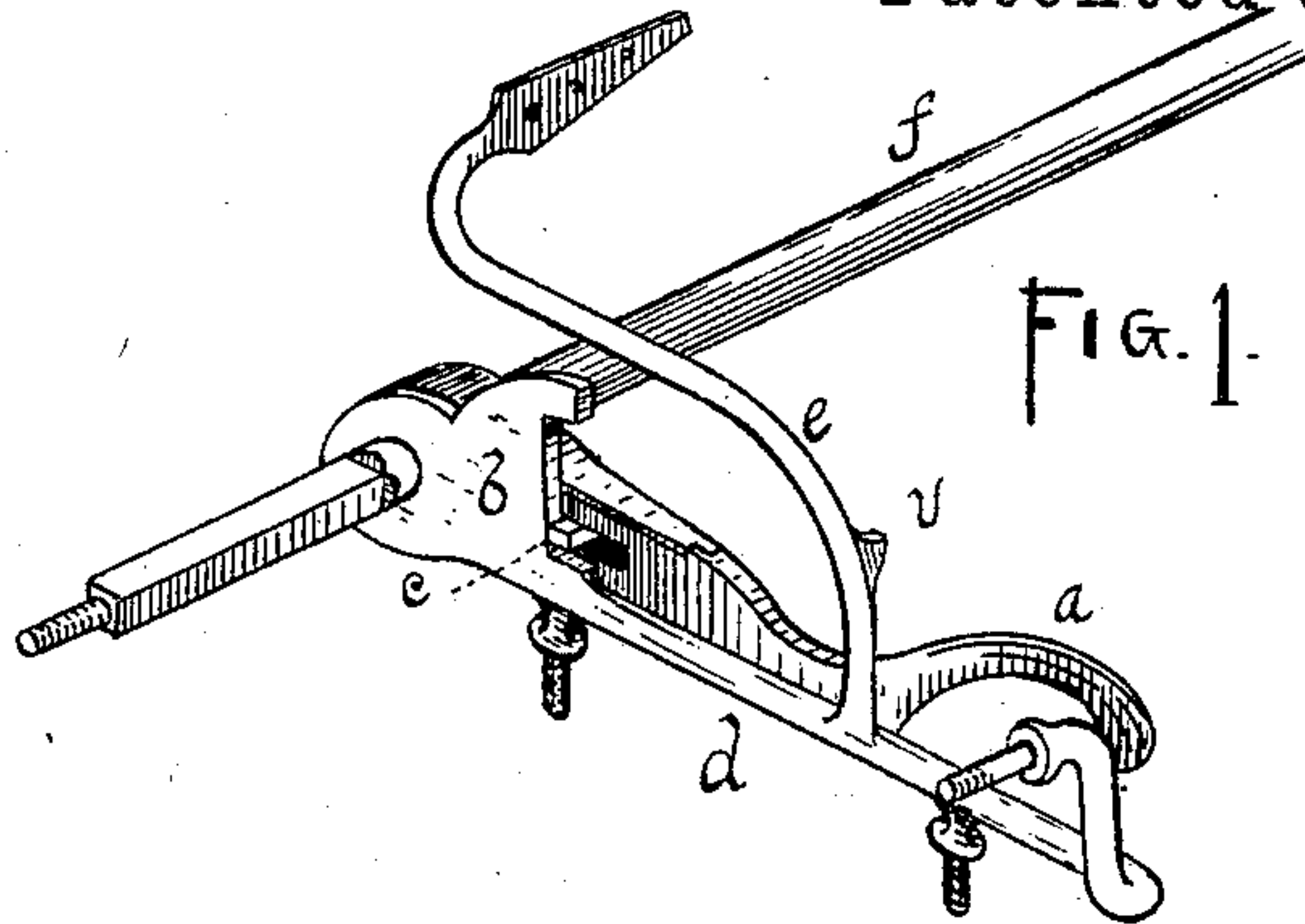


FIG. 2.

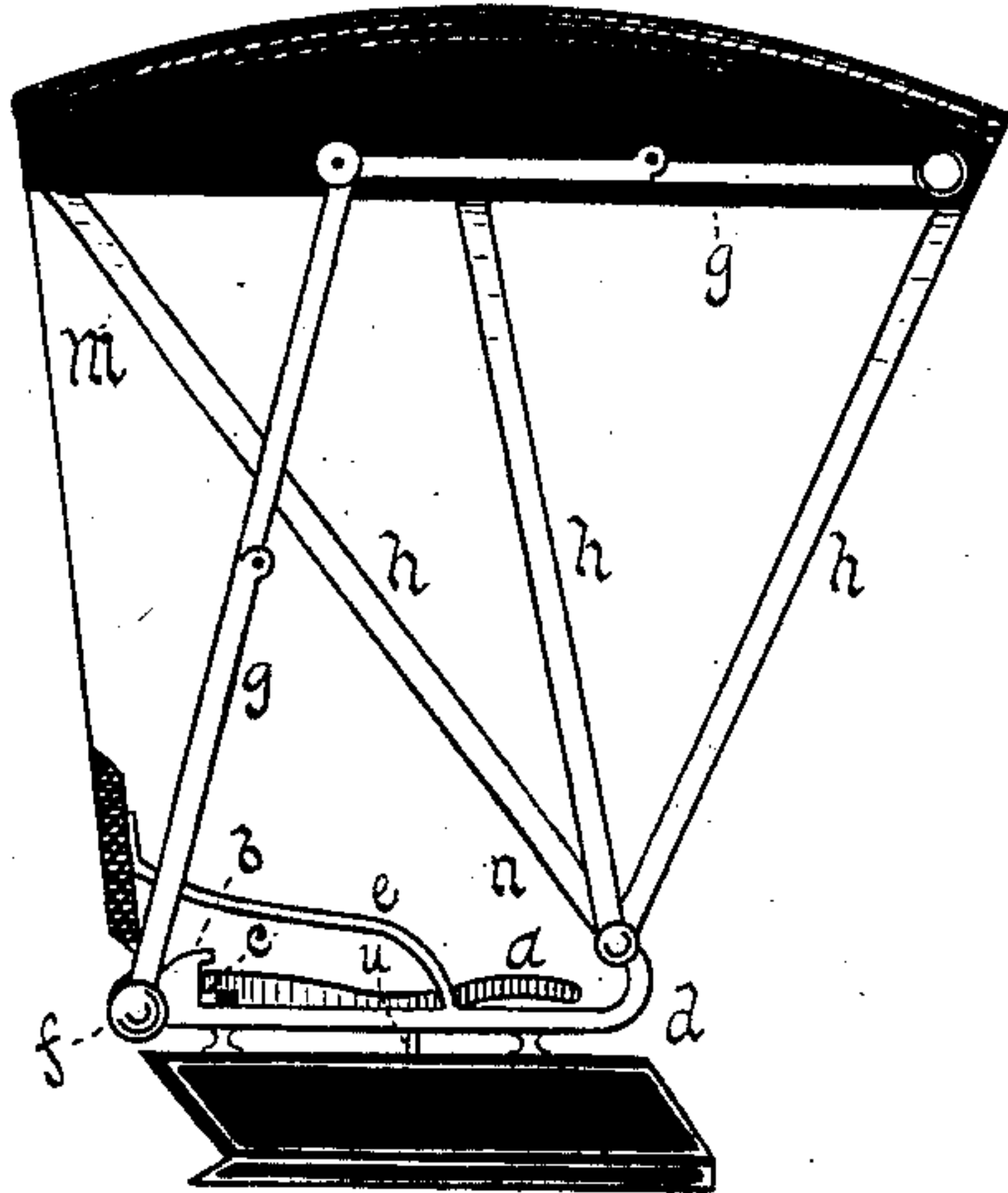


FIG. 3.

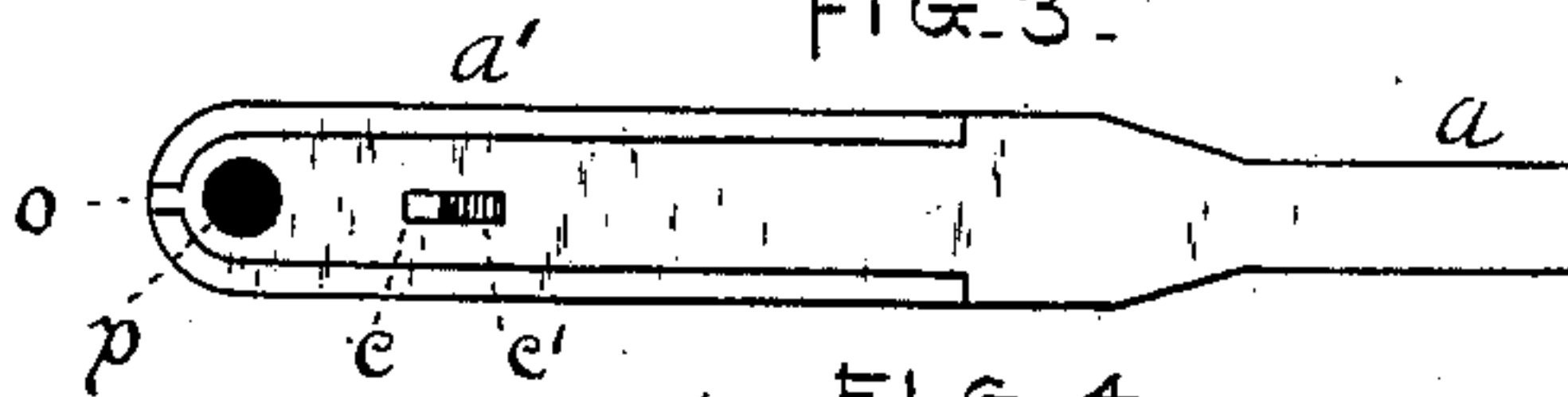


FIG. 4.

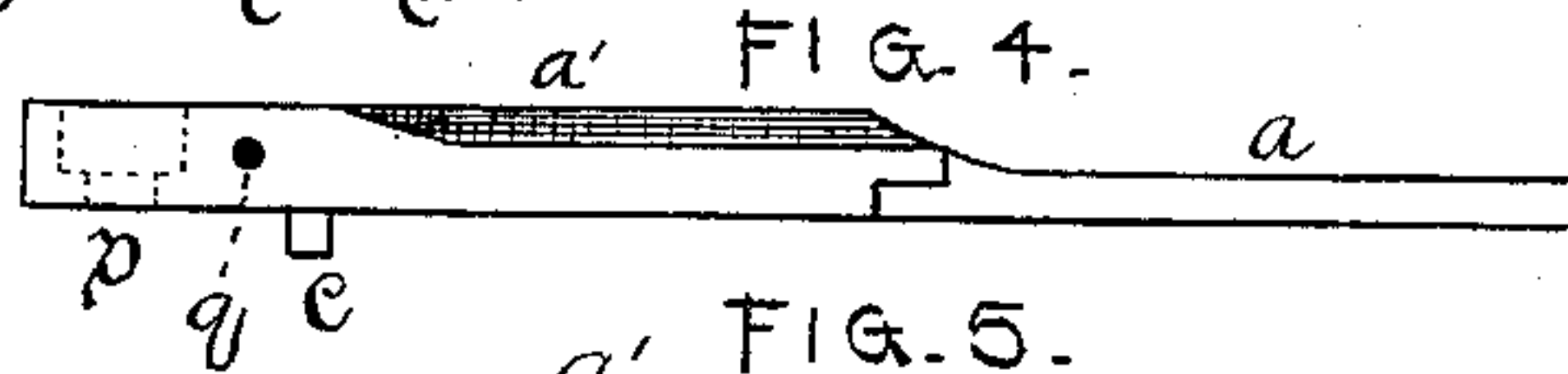


FIG. 5.



FIG. 6.

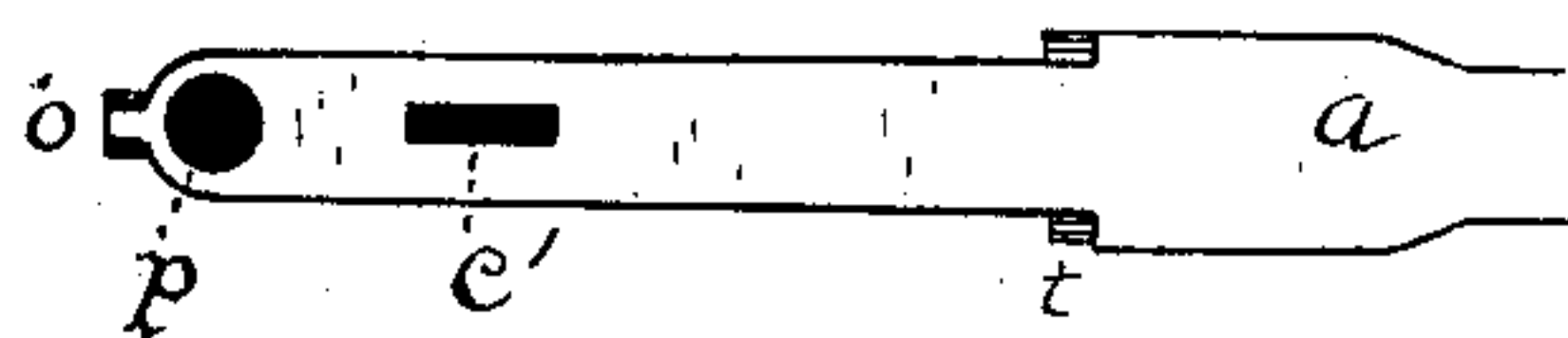
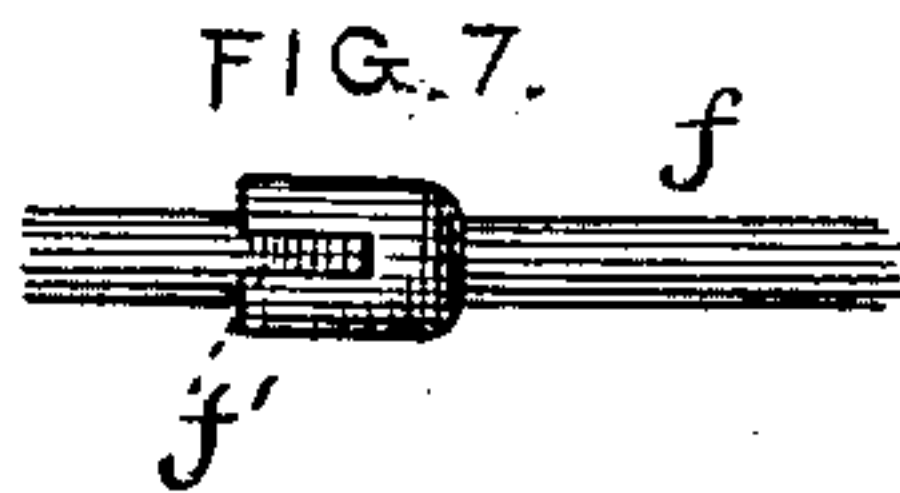


FIG. 7.



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# UNITED STATES PATENT OFFICE.

ERASTUS L. BOOTH, OF MOUNT ZION, ILLINOIS.

## BUGGY-TOP.

SPECIFICATION forming part of Letters Patent No. 321,945, dated July 14, 1885.

Application filed October 10, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, ERASTUS L. BOOTH, a resident of the town of Mount Zion, in the county of Macon and State of Illinois, have  
5 invented certain new and useful Improvements in Buggy-Tops, of which the following is a specification sufficiently full, clear, and exact to enable any one skilled in the art to which it relates to make and use the same.

10 The object of my invention is to enable an occupant of a buggy to quickly and easily lower or raise the top without touching the braces that support the same, and without subjecting the said top to danger of breakage.

15 My invention consists in certain details of construction and combinations of parts as hereinafter set forth and claimed.

In the drawings accompanying and forming a part of this specification, Figure 1 is a perspective view of a portion of my invention. Fig. 2 is a side elevation of a buggy-top with my improvements attached, and Figs. 3, 4, 5,  
20 6, and 7 represent details of the raising and lowering device.

25 *f* represents a shaft extended across the rear of the buggy-seat. *g* shows the hinged braces for the buggy-top, constructed in the usual manner, and rigidly secured to shaft *f*. *a* is a lever adapted to swing loosely on shaft *f*. *c*  
30 is a sliding projection in lever *a*. *d* shows a side rail of the buggy-seat, in which shaft *f* has a bearing. *b* represents a vertical surface on rail *d*. *e* shows a side-rail brace. *h* are the top supports, pivoted on rail *d* in the customary manner.

35 Fig. 3 is a side view of lever *a*. Fig. 4 is a top view of the same.

In construction the lever is composed of two parts, one of which, *a*, is shown in Fig.  
40 6, while the other is shown at Fig. 5.

Fig. 7 represents the preferred form of shaft *f* at the point of attachment with lever *a*.

A hole, *p*, is formed in the end of lever *a* to receive shaft *f*. Part *a'* is recessed to receive part *a*, and the said parts are held in  
45 position laterally by dovetail formations at *o* and *t*. (See Fig. 6.) A groove in part *a'* receives a sliding bolt, *r*, to which projection *c* is rigidly attached. A spiral-spring, *s*, tends  
50 to hold the end of bolt *r* in the position indi-

cated at Fig. 5. A slot, *c'*, in part *a* permits a limited amount of motion longitudinally on the part of bolt *r*.

Recess *f'* (see Fig. 7) is formed in shaft *f*, and bolt *r*, by operating in said recess, imparts  
55 the motion of lever *a* to said shaft.

As the lower portion of braces *g* are rigid on shaft *f*, they necessarily share in its motion; and this statement applies to the braces on both sides, as the shaft extends entirely across  
60 the buggy, and the manner of attaching the braces is on each side the same.

Vertical surface *b* acts as an inclined plane on projection *c* for the purpose of withdrawing bolt *r* from recess *f'*.  
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When it is desired to lower the top, lever *a* is raised until the inclined plane *b* withdraws bolt *r* out of recess *f'*, after which the top descends of its own weight. A projection, *v*,  
70 is relied on to hold the lever *a* in an elevated position, and the top is raised with the hands until the bolt *r* engages the recess *f'*, after which the operation of raising is completed by forcing said lever down into the position  
75 shown.

If at any time it is desired to dispense with the lever, bolt *r* may be withdrawn and secured from contact with the shaft by means of a pin in hole *q*. (See Fig. 4.)

It is obvious that by my device the inconvenience of adjusting both sides with the  
80 hands will be overcome.

To construct the lever the bolt and spring are placed in their recess and part *a* slid into position and secured from lateral misplacement by the dovetail formations before mentioned.  
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I claim as new, and desire to secure by Letters Patent—

The combination, with a shaft to which the  
90 braces of a buggy-top are rigidly attached, of a lever provided with a sliding bolt adapted to engage the said shaft, and an inclined plane adapted to disengage the bolt from the shaft by the action of the lever, as and for the purpose set forth.  
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ERASTUS L. BOOTH.

Attest:

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