

(No Model.)

G. S. TINGLEY.

TOY GUN.

No. 332,461.

Patented Dec. 15, 1885.

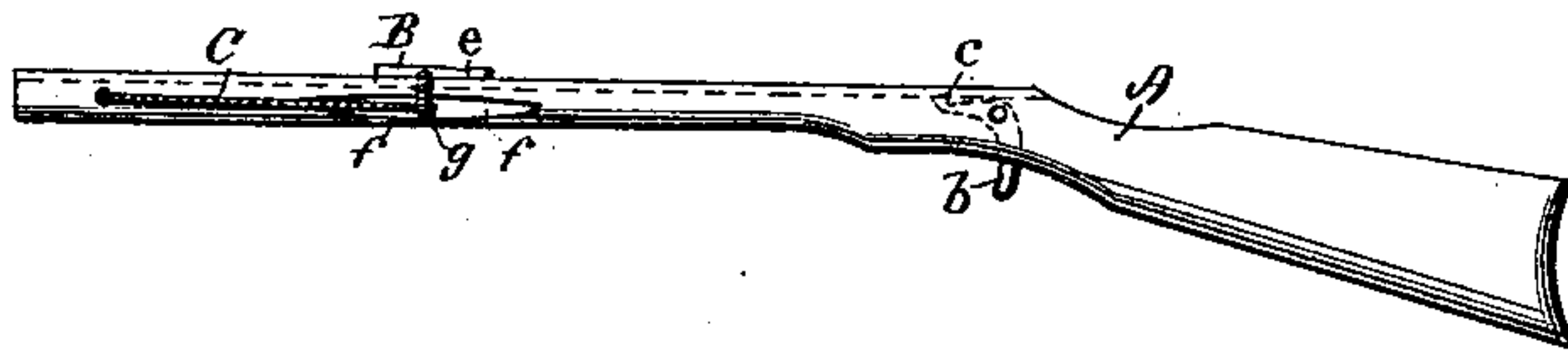


FIG. 1.

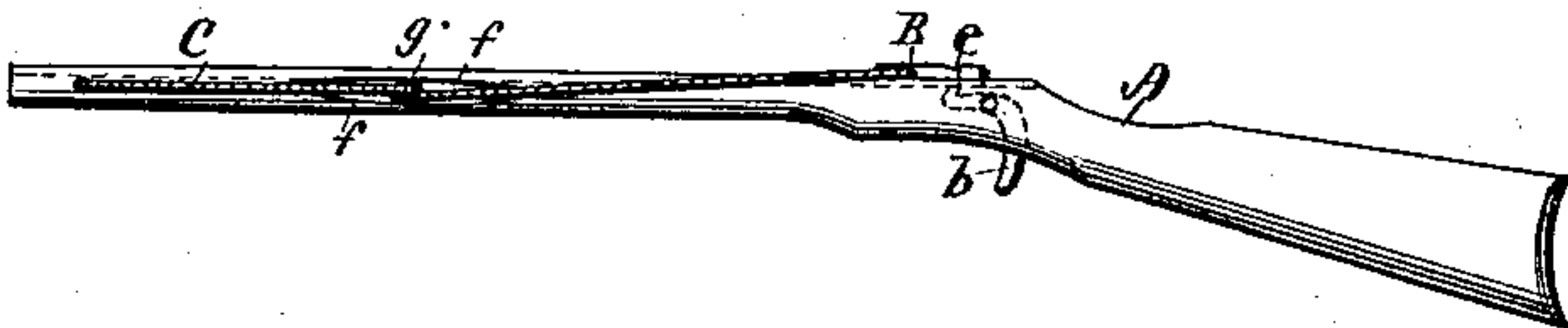


FIG. 2.

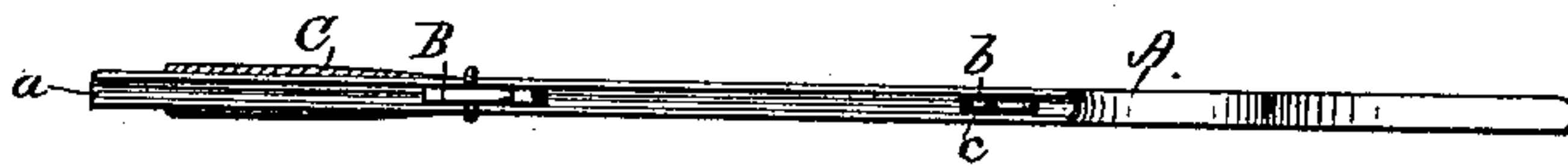


FIG. 3.

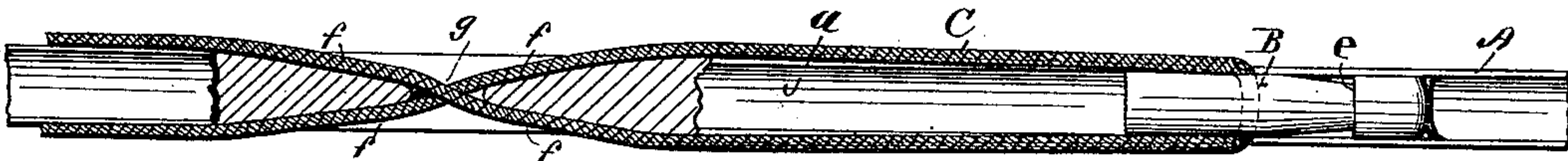
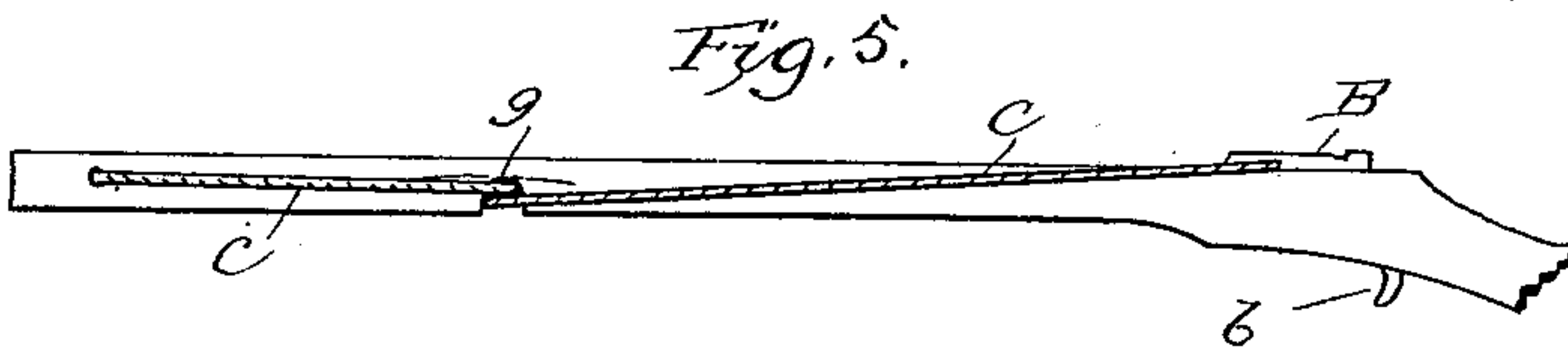


FIG. 4.



WITNESSES:

Chas. F. Schuch
Joseph J. Scholfield

INVENTOR:

George S. Tingley
per S. Scholfield
Attorney

UNITED STATES PATENT OFFICE

GEORGE S. TINGLEY, OF PAWTUCKET, RHODE ISLAND, ASSIGNOR TO THE
R. BLISS MANUFACTURING COMPANY, OF SAME PLACE.

TOY GUN.

SPECIFICATION forming part of Letters Patent No. 332,461, dated December 15, 1885.

Application filed May 20, 1885. Serial No. 166,185. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. TINGLEY, of Pawtucket, in the county of Providence and State of Rhode Island, have invented an
5 Improvement in Toy Guns, of which the following is a specification.

My invention relates to that class of toy guns in which a contractile cord or rubber spring is employed fixed to the muzzle end of
10 the gun-body and to the driver. In this class of guns as heretofore constructed it has been found necessary to provide guides projecting laterally from the body of the gun, under which the elastic cord passed, this being secured to
15 the muzzle end of the gun and to the driver above the gun-body. These projections serve not only as guides, but act to stop the driver at the proper point to project the arrow or other article from the gun.

20 The object of my invention is to obviate the necessity for these guides, which not only add to the expense, but mar the appearance of the toy, and are in the way and are liable to be knocked off in use.

25 My invention therefore consists in the details of construction, whereby all need of projection to act as guides or stops is obviated, and a plain cheap stock is secured with the crossed elastic cord and driver.

30 Figure 1 is a side view of my improved toy gun with the driver in its normal position. Fig. 2 is a side view of the gun with the driver drawn back ready to be released by the trigger. Fig. 3 is a top view of the gun, with the
35 driver in the position shown in Fig. 1. Fig. 4 is an enlarged detail view of the barrel, which is broken away to show the crossing of the rubber strap or cord. Fig. 5 is a modification.

40 In the accompanying drawings, A is the gun stock and barrel, provided with a groove, *a*, of sufficient depth to guide the projectile, and with a trigger, *b*, having a projection or hook, *c*, adapted to engage with the circumferential
45 groove *e* of the driver B. The driver B is preferably of a shape to fit the groove, and is provided with a means of securing the rubber

cord C to the same, preferably by passing the cord directly through the driver near its center. The barrel of the gun is provided with
50 an opening, *g*, preferably of slightly-elongated form, extending from side to side through the stock, and side grooves, *f*, of gradually-diminishing depth, are made to extend forward and back of the opening *g*, through which the cord
55 C is crossed from one side to the other of the gun, as shown in the enlarged detail, Fig. 4.

In arranging the cord and driver, I first pass the cord through the driver, then pass the ends of the cord through the opening *g*,
60 thus crossing the cord, and secure the crossed ends near the forward end of the gun by inserting them in a hole and driving a tightly-fitting pin therein. The crossing of the cord
65 C through the transverse opening *g* operates as a means for checking the forward movement of the driver, and serves to bring the driver gradually to a stop by means of the same cord which projects it. It is not necessary that the
70 hole in which the cord is crossed should be closed on the under side, as there is no liability that the cord would be disengaged in this direction, and the opening may be in the form of a notch on the under side of the stock.

The gist of the invention lies in the trans-
75 verse notch, opening, or hole in the under side of the stock, in connection with the cords crossed therein and arranged in the gun, as heretofore explained, irrespective of the particular form of the hole or notch.
80

I claim as my invention—

A toy gun having a groove in the upper surface of the stock, a notch or opening in the barrel, a double elastic cord attached near the muzzle on each side, crossed in the notch or
85 opening, and connected to the driver, and the trigger adapted to catch and retain the driver. the parts being constructed and combined substantially as and for the purpose set forth.

GEORGE S. TINGLEY.

Witnesses:

SOCRATES SCHOLFIELD,
ALBERT H. BULLOCK.