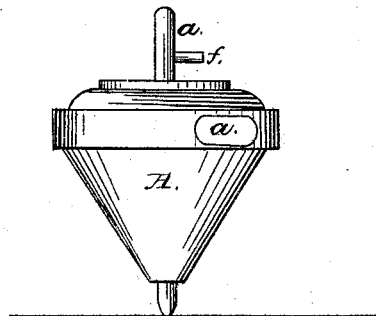
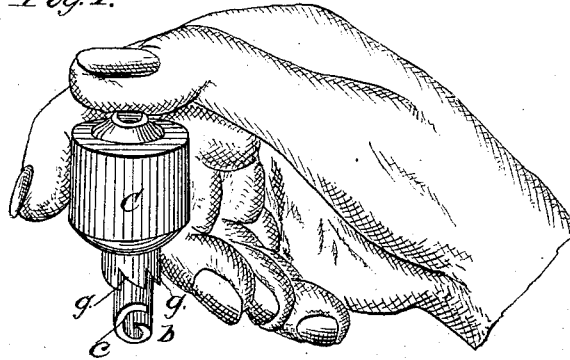
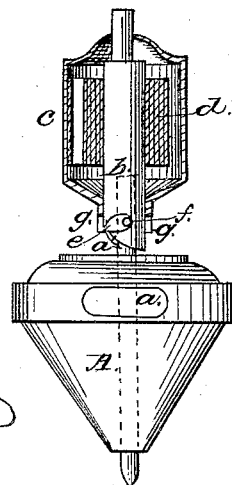


*L. Cramer,*  
*Spinning Top.*  
*N<sup>o</sup> 45,816.      Patented Jan. 10, 1865.*

*Fig. 1.*



*Fig. 2*



*Witnesses.*

*Gustave Dieterich*  
*C. L. Toppliff*

*Inventor:*  
*Louis Cramer*

# UNITED STATES PATENT OFFICE.

LOUIS CRAMER, OF BROOKLYN, NEW YORK.

## SPINNING-TOP.

Specification forming part of Letters Patent No. 45,816, dated January 10, 1865.

### *To all whom it may concern:*

Be it known that I, LOUIS CRAMER, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Spinning-Top; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a perspective view of this invention. Fig. 2 is a vertical central section of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to an improvement in that class of spinning-tops in which a spring is employed for the purpose of imparting to the top the desired whirling motion. The spring is inclosed in a barrel, which is fitted loosely to a central arbor, one end of said spring being connected to the barrel and the other to the arbor, and the arbor is hollow at its lower end to fit over the shank of the spinning-top. A pin projecting from this shank catches in a notch in the arbor, and a series of ratchet-teeth at the lower end of the barrel also catch over said pin in such a manner that when the hollow arbor is put over the shank of the top, and the spring is wound up by turning the barrel with one hand while the other holds the top, the barrel and the top are firmly locked together as long as the pin projecting from the shank of the top catches in the notch of the hollow arbor and also in one of the ratchet-teeth, and the spring is prevented from unwinding until by depressing the arbor the pin disengages from the ratchet-tooth and a powerful whirling motion is imparted to the top.

A represents a spinning-top, made of tinned sheet-iron or any other suitable material, in the usual form, and with a hole, *a*, in its side to produce a humming sound during the motion of said top.

In order to impart a whirling motion to the top it is provided with a shank, *a'*, projecting from its upper end, as clearly shown in Fig. 1 of the drawings. This shank fits into a hollow arbor, *b*, which passes through the barrel *c*, that incloses the coiled spring *d*. The arbor is retained in the barrel by the spring, the inner end of which is secured to said arbor, while its outer end is fastened to the barrel, as clearly shown in Fig. 2. The lower end of the barrel is provided with a notch, *e*, to catch over a pin, *f*, projecting from the shank of the top, and the barrel *c* is provided with a series of ratchet-teeth, *g*, which also catch over the pin *f* when the spring *d* is wound up.

In order to wind up the spring the shank of the top is inserted into the hollow barrel so that the pin *f* catches in the notch *e*, and by holding the top in one hand and turning the barrel with the other the spring is wound up. Four or five turns given to the barrel are sufficient to impart to the spring the desired tension. In winding the barrel the inclined backs of the ratchet-teeth slide over the pin, and the vertical sides of said teeth, striking against the pin, prevent the spring from unwinding spontaneously until by pressing on the upper end of the arbor *b* the pin *f* is forced clear of the ratchet-teeth, and the spring, being free to unwind, imparts a powerful whirling motion to the top.

I do not claim, broadly, as my invention the use of a whirling-jack for spinning-tops, such having been used before; but—

I claim as new and desire to secure by Letters Patent—

A notch, *e*, in the hollow arbor *b*, in combination with the ratchet-teeth *g*, on the barrel *c*, which incloses the spring *d*, and with the pin *f*, projecting from the shank of the top, constructed and operating substantially as and for the purpose set forth.

LOUIS CRAMER.

Witnesses:

W. HAUFF,  
JAMES F. BUCKLEY.