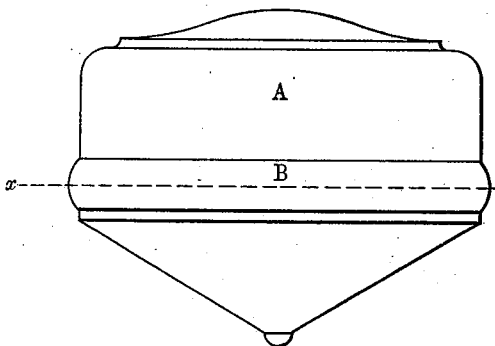


J. W. MURPHY.
Spinning-Top.

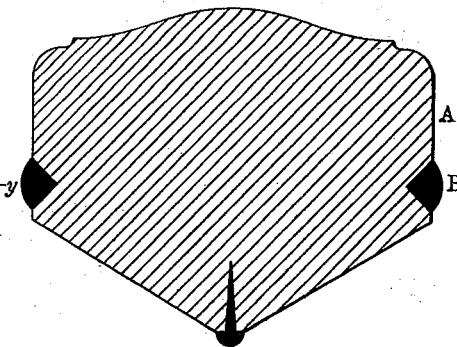
No. 197,393.

Patented Nov. 20, 1877.

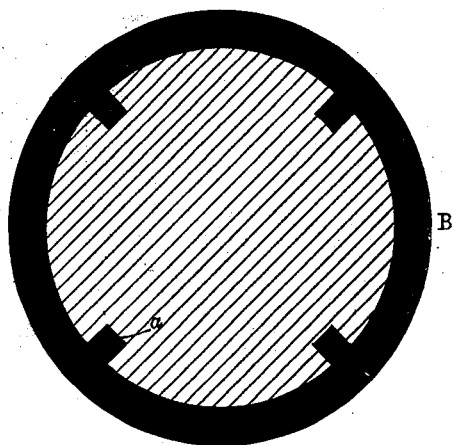
— FIG. I —



— FIG. II —



— FIG. III —



— WITNESSES —

Wm. St. Johnson
—
W. W. Wharton
—

— INVENTOR —

John W. Murphy
—
by G. H. J. Howard
his Atty.

UNITED STATES PATENT OFFICE.

JOHN W. MURPHY, OF BALTIMORE, MARYLAND, ASSIGNOR OF ONE-HALF
HIS RIGHT TO WILLIAM WEBB, OF SAME PLACE.

IMPROVEMENT IN SPINNING-TOPS.

Specification forming part of Letters Patent No. **197,393**, dated November 20, 1877; application filed
April 27, 1877.

To all whom it may concern:

Be it known that I, JOHN W. MURPHY, of the city of Baltimore and State of Maryland, have invented certain Improvements in Tops, of which the following is a specification; and I do hereby declare that in the same is contained a full, clear, and exact description of my said invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to certain improvements in whipping-tops, or that class of tops which depend for their continued rotation on the application thereto of a whip or piece of flexible material held in the hand of the operator.

The said invention consists in a peculiar manner of loading an ordinary wooden whipping or other top, for the purpose of increasing its momentum while spinning, as hereinafter described.

In the accompanying drawings, forming a part hereof, Figure 1 is an exterior view of a top loaded in accordance with my invention. Fig. 2 is a vertical section of the top, and Fig. 3 is a sectional plan of the same on the dotted line *x y*.

Similar letters of reference indicate similar parts in all the figures.

A represents the top, and B a metallic ring or

belt, secured within a groove extending around the same. The ring or belt is of a practically triangular cross-section, and is preferably formed of a metallic alloy easily fused. The said ring is placed as low in the cylindrical portion of the top as possible, in order to lower the center of gravity of the top, and thereby increase its tendency to retain its vertical position while in rotation.

To prevent the metallic ring or belt from becoming loose within the groove, I provide the said ring or belt with projections *a*, which are formed by the metal, while in a fused state, flowing into depressions extending from the triangular groove.

Having thus described my invention, what I claim as new, and wish to secure by Letters Patent of the United States, is—

In combination with the wooden top *A*, the metallic ring *B*, located exteriorly of the said top, and within a groove extending circumferentially of the same, substantially as and for the purpose specified.

In testimony whereof I have hereunto subscribed my name this 23d day of March, A. D. 1877.

JOHN W. MURPHY.

Witnesses:

WM. T. HOWARD,
JNO. S. MADDOX.