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A. C. MURRAY

1,841,198

PEG TOP

Filed June 10, 1930

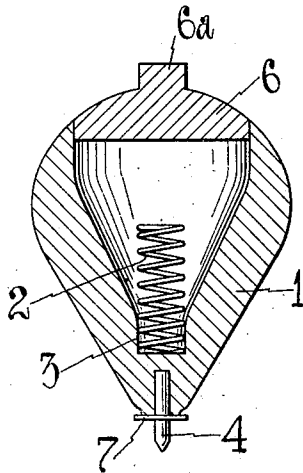


FIG. 1

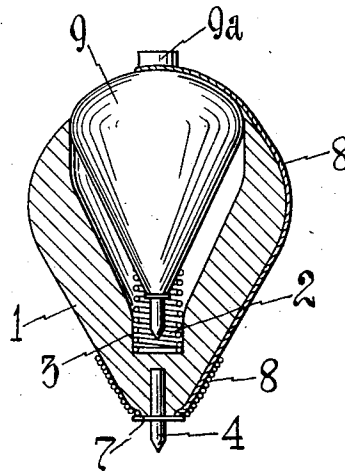


FIG. 2

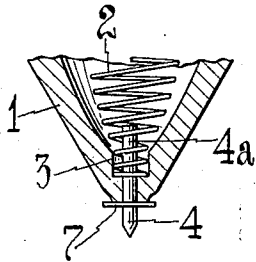


FIG. 3

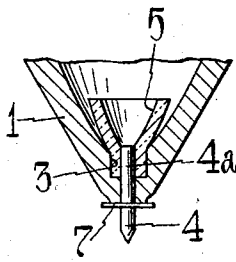


FIG. 4

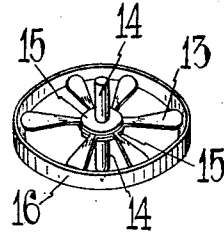


FIG. 5

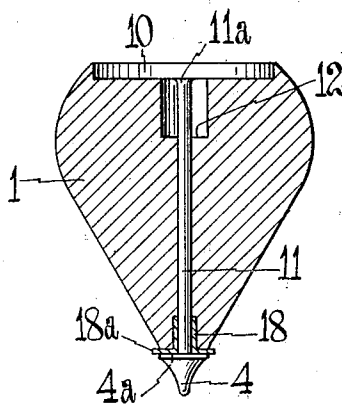


FIG. 6

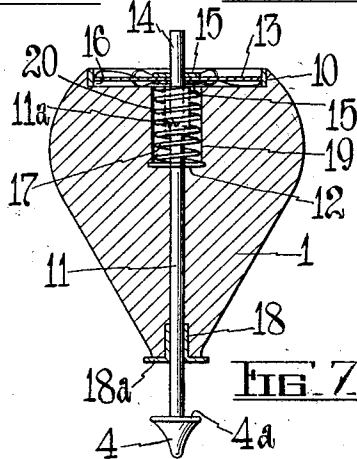


FIG. 7

Inventor:
A.C. Murray,
by
Langmuir, Parry, Hard & Langmuir
Attys.

UNITED STATES PATENT OFFICE

ALEXANDER COLIN MURRAY, OF TIMARU, NEW ZEALAND

PEG TOP

Application filed June 10, 1930, Serial No. 460,232, and in New Zealand September 9, 1929.

This invention relates to peg tops adapted for spinning by means of a cord wound thereon, and has for its object the provision of improvements in said tops, designed to afford increased amusement to those spinning same.

According to the invention, the top is formed with a chamber which opens through its upper surface to receive an inner member, which, prior to spinning the top is retained in the latter by the cord wound thereon for the purpose of spinning same, said inner member upon the top being spun, being projected from the latter by the action of an ejector located within the top.

The inner member upon being projected from the spinning top, also spins, and is formed so as to continue spinning upon descending to the ground or other surface, and said inner member can comprise a smaller top, or a device provided with propeller blades and a stem, while the ejector can consist of a metal or a rubber spring, or a sliding stem formed as a continuation of the peg of the top.

In the accompanying drawings in conjunction with which the invention will be further described

Fig. 1 is a vertical section of a top formed according to the invention and adapted for use as an ordinary top,

Fig. 2 is a similar view to that shown in Fig. 1, but showing an inner member, in the form a smaller top, fitted in the main top;

Figs. 3 and 4 are part sectional elevations illustrating alternative forms of springs,

Fig. 5 is a vertical section of a top with which a propeller bladed inner member is used,

Fig. 6 illustrates the propeller bladed device and

Fig. 7 shows said device fitted in the top.

Referring to Fig. 1 the top 1 is hollowed out as shown, and contains a coiled spring 2, which can be secured in the top by being fitted tightly in the recess 3 at the bottom of the top, or by being formed to press tightly over an upward extension 4a of the peg 4 as in the case of the volute spring Fig. 3. Instead

of using a coiled spring, a compressible rubber cup 5 Fig. 4, can be made to act as a spring, said cup being formed either for forcing over and on the upper extension 4a of the peg 4 or for entry into and retention in the recess 3, in a similar manner to the coiled spring 2. Both the coiled spring 2 and the rubber spring 5 can increase in diameter upwards to more readily receive and accommodate the member to be placed in the top 1. A cover 6 with a knob 6a thereon is provided to fit tightly in the upper portion of the hollow interior of the top 1, to enable the latter to be used as an ordinary top.

A flange 7 on the peg 4 projects beyond the bottom of the top 1 to prevent the cord 8 from slipping off the latter when wound thereon.

The inner member to be inserted in the top 1 can comprise a smaller top 9 (Fig. 2) the peg and lower portion of which are inserted in the coiled spring 2 or the rubber spring 5, the spring being compressed by forcing the top 9 into the top 1, the former being retained in the latter and the spring kept compressed by the cord 8 which is looped on the knob 9a of the top 9, and wound on the top 1.

The top 1 either with the cover 6 or the top 9 therein is spun in the usual manner, and when the top 9 is used, the impact of the top 1 with the ground or surface on which it is being spun and the removal of the cord 8 by the action of spinning, combined with the expansion of the spring, results in the smaller top 9 being projected upwards from the top 1 to spin in the air, and also on the ground or other surface, when it descends on to the latter.

In the form of the invention illustrated in Figs. 5, 6, and 7, the top 1 contains an upper recess 10 and a stem 11 on the lower end of which is the peg 4. The stem 11 is slidable through the top 1, its upward movement through the latter being limited by the flange 4a on the peg 4, and its downward movement through the top being limited by the turned over upper end 11a engaging the internal ledge 12.

The inner member to be used in the last

described form of top, consists of a propeller bladed device 13 having a stem 14 which extends above and below the blades of the device, and upper and lower washers 15, the propeller blades preferably being held in a ring 16 made to fit neatly in the recess 10.

When the propeller bladed device 13 is inserted in the recess 10, the lower end of the stem 14 enters a ferrule 20 secured on the upper end of the stem 11, or it can enter the latter if the diameter thereof permits it to be bored to receive said stem 14, the insertion of the stem 14 in the ferrule 20, or in the upper end of the stem 11, being necessary to avoid tilting of the propeller bladed device 13, and the pulling of the latter out of the recess 10 under the action of the cord 8 when same is looped on the upper end of the stem 14 and wound on the top 1 preparatory to spinning the latter. The entry of the stem 14 into the ferrule 20, or into the upper end of the stem 11, forces the latter downwards, to cause the peg 4 to be projected well clear of the top. To spin the top with the propeller bladed device 13 therein, the cord 8 is looped on the upper end of the stem 14 of the device 13 and wound on the top 1, the latter then being spun in the usual manner. Upon the top striking the ground or other surface on which it is being spun, and following removal of the cord 8 which occurs during the action of spinning, the peg 4 and stem 11 are struck suddenly upwards and project the device 13 upwards from the top, said device owing to its propeller blade formation, and the spinning motion imparted thereto by the top 1, spinning and sailing through the air and finally spinning on its stem 14 on the ground or other surface when it descends on to the latter.

If desired, a spring 17 (shown dotted Fig. 7) can be placed in the recess 19 around the ferrule 20 or the upper end of the stem 11, said spring 17 before compression extending above the top and being compressed on the ledge 12 by downward movement of the device 13 upon the insertion of the latter in the top, and being held compressed by the cord 8 which retains the device 13 in the recess 10 until such time as the top 1 is spun, when the spring 17 is allowed to expand and assists in projecting or expelling the device 13 from the top 1, or if a sliding stem 11 be not used said spring 17 is solely responsible for the projection or expulsion of the member 13.

In order to prevent the cord 8 from slipping off the lower end of the top 1, a ferrule 18 with a flange 18a is fitted in the lower end of the top so that the flange 18a projects beyond said lower end.

In order to produce humming or musical sound or sounds, the top 1 or/and the cap 6 or inner member can be provided with a hole or holes, or attachments can be utilized for said purpose.

What I do claim and desire to obtain by Letters Patent of the United States of America is:—

1. A peg top formed with a chamber opening through its upper surface, and containing an ejector; and a member inserted in said chamber and held therein against the action of said ejector by the cord wound on the top for spinning same.

2. A peg top as in claim 1, wherein the ejector comprises a spring compressible between the member inserted in the top and the interior of the latter.

3. A peg top as in claim 1, wherein the ejector comprises a stem slidable in the top and having the peg of the latter formed thereon.

4. A peg top as in claim 1 wherein the ejector comprises a spring secured at its lower end to the top and shaped to receive the inner member.

5. A peg top as in claim 1, wherein the inner member comprises a small top inserted in the main top and wherein the ejector is shaped to accommodate the lower portion of and is compressed between said smaller top and the main top.

6. A peg top as in claim 1, wherein the ejector comprises a stem slidable in the top and having the peg of the latter formed thereon, and having a recess in the upper end thereof, and wherein the member inserted in the top comprises a propeller bladed device having a stem upon the upper end of which the cord is looped, and having a lower end for insertion in the said recess.

7. A peg top formed with a chamber opening through its upper surface, an ejector mounted in the said chamber and comprising a stem slidable in the top and having the peg of the said top formed thereon and having a recess in the upper end thereof; a member inserted in the said chamber and held therein against the action of the said ejector by the cord wound on the top for spinning the same, the said member comprising a propeller-bladed device having a stem upon the upper end of which the cord is looped, and having a lower end for insertion in the said recess, the said peg top having a ledge adjacent its upper surface, and a spring inserted in the top between the ledge and propeller-bladed device, the said spring surrounding the upper end of the sliding stem and the lower portion of the stem of the said propeller-bladed device.

In testimony whereof I have signed my name to this specification.

ALEXANDER COLIN MURRAY.