(No Model.)

E. FACKNER.

BALL CASTER.

No. 568,241. Patented Sept. 22, 1896.

Fig: 1.

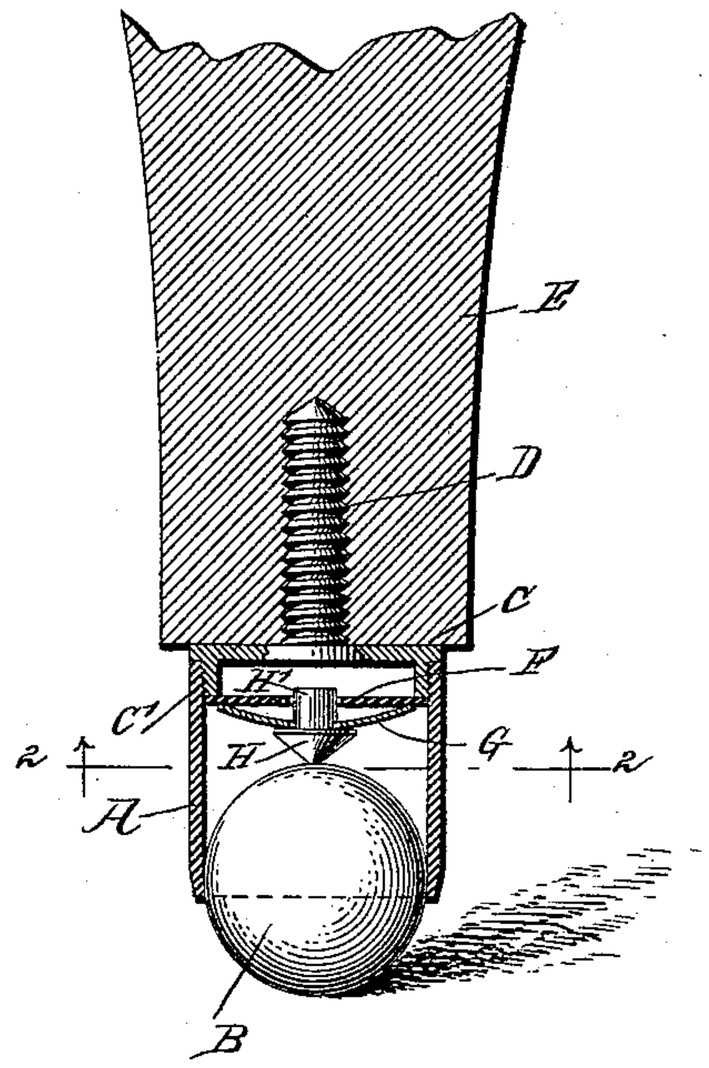


Fig: 2.

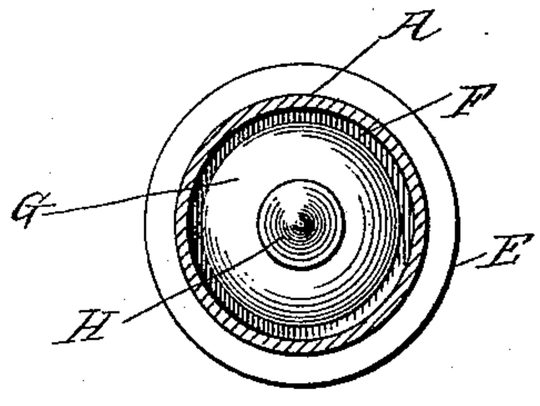


Fig: 3

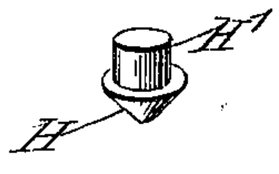


Fig: 4

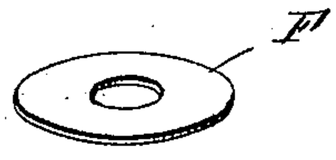


Fig: 5

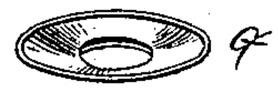


Fig: 6

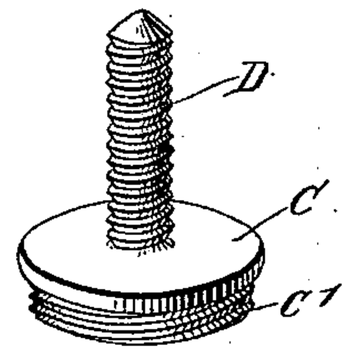
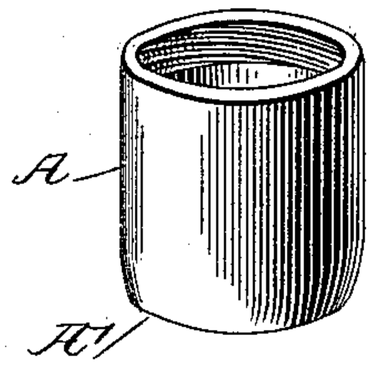


Fig 7



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EDWARD FACKNER, OF BROOKLYN, NEW YORK.

BALL-CASTER.

SPECIFICATION forming part of Letters Patent No. 568,241, dated September 22, 1896.

Application filed June 22, 1895. Serial No. 553,666. (No model.)

To all whom it may concern:

Be it known that I, EDWARD FACKNER, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Ball-Caster, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved ball-caster, more especially designed for use on heavy articles, such as safes, pianos, furniture, &c., and arranged to permit the ball to turn readily in the direction in which the article is pushed.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional side elevation of the improvement as applied. Fig. 2 is an inverted sectional plan view of the same on the line 2 2 of Fig. 1. Fig. 3 is a perspective view of the pin or post. Fig. 4 is a perspective view of the flat disk. Fig. 5 is a similar view of the concave disk. Fig. 6 is a perspective view of the top of the casing, and Fig. 7 is a like view of the casing.

The improved caster is provided with a tubular casing A, adapted to contain a ball B, the said casing being slightly contracted at its lower end to engage the ball below its middle, to securely hold the ball in position in the casing, and at the same time permit of a free revolution of the ball within the casing. The upper end of the casing A is attached to a top C, provided with a depending annular screw-threaded flange C′, on which screws the interiorly-threaded upper end of the casing A, as is plainly illustrated in Fig. 1. From this top or cap C extends a screw or pin D to engage a leg or other article E, on which the caster is to be applied. (See Fig. 1.)

Against the under side of the threaded flange C′ rests a flat spring-disk F, on the under side of which rests the edge of a concave disk G, made of steel or other springy material, and formed in its center with an opening registering with a corresponding opening in the disk F, the said openings receiving the shank H′ of a conically-shaped pin or head H, adapted to rest with its apex on the top of the ball B and with its base abutting against the under side of the concave disk G.

Now it will be seen that by the arrangement described the pin or head H is conveniently mounted in the spring-disks G and F, so that a heavy load bearing on the caster will cause the said spring-disk and pin to yield and permit the ball B to move upward in the casing A, so that the ball will readily turn, no matter how heavy the load, whenever the article is pushed in any direction.

It is understood that the apex of the conical pin or head H is slightly rounded off, so that the ball B will readily turn without danger of the pin cutting into the ball when a heavy load is supported on the ball and pin. It will further be seen that the device is extremely simple and durable in construction, can be cheaply manufactured, and readily applied.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A ball-caster, comprising a casing having its lower end contracted, a cap for the casing provided with a screw projecting from its upper surface, a flat apertured disk in the casing, a bearing in the casing above the disk and against which the disk rests, an apertured concave disk of less diameter than the flat disk and resting on the under side of the same, a ball in the casing, and a pin having a head engaging the ball and provided with a shank projecting through the apertures of the said disks, substantially as described.

2. A ball-caster, consisting of a cap having a screw-threaded flange and provided with a screw projecting from its upper surface for securing it to the article on which the caster is to be used, a casing having its lower end contracted and screwing on the flange of the said cap, a ball in the casing, a flat apertured disk resting on the annular flange of the cap, an apertured concave spring-disk of less diameter than the flat disk resting on the under side of the same, and a pin having a conical head engaging the ball and provided with a shank projecting through the apertures of the said disks, substantially as described.

EDWARD FACKNER.

Witnesses:
THEO. G. HOSTER,
C. SEDGWICK.