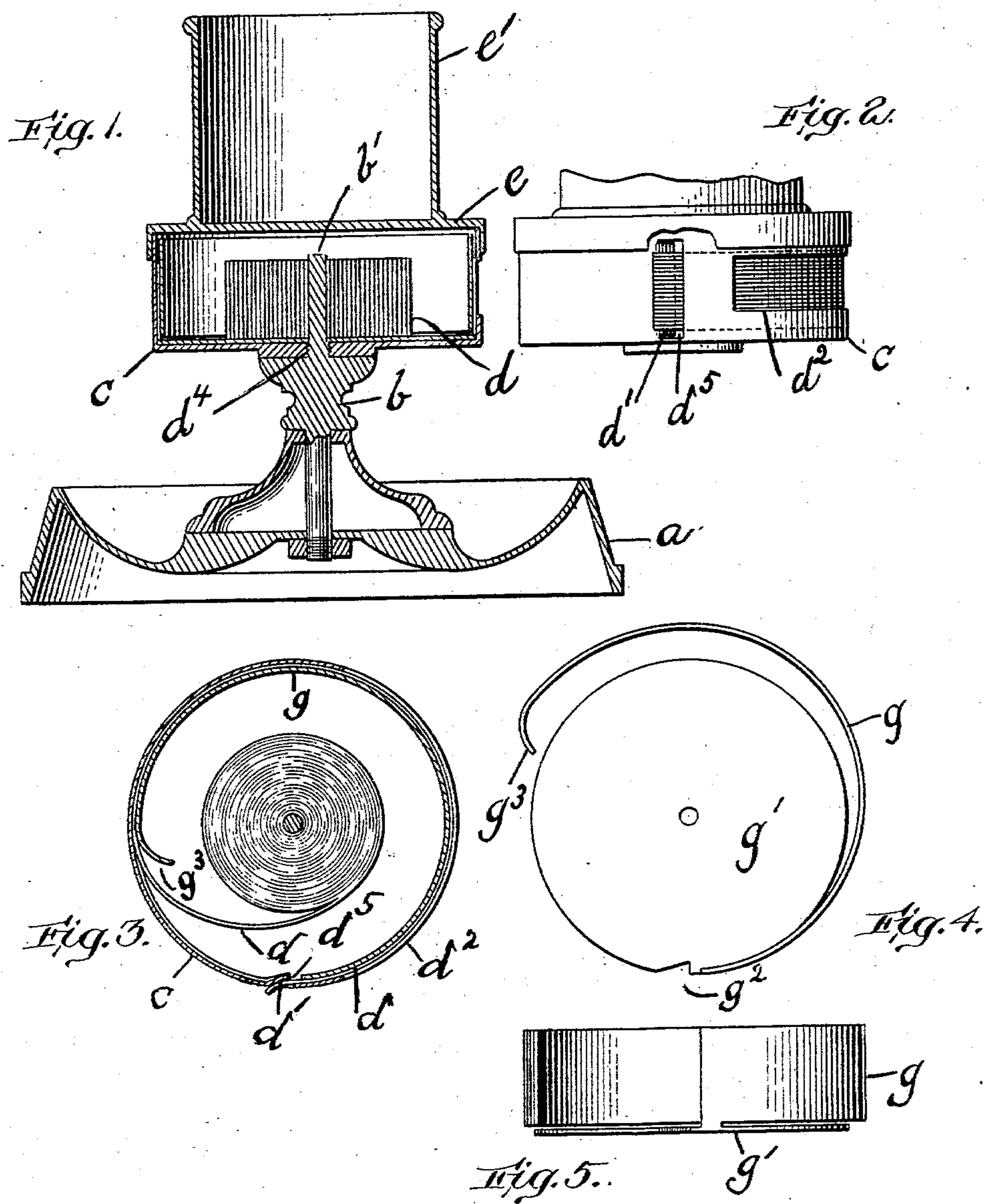


No. 753,297.

PATENTED MAR. 1, 1904.

J. E. NEAHR.  
MATCH RECEPTACLE.  
APPLICATION FILED DEC. 11, 1902.

NO MODEL.



Witnesses:

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# UNITED STATES PATENT OFFICE.

JACOB E. NEAHR, OF MELROSE, MASSACHUSETTS.

## MATCH-RECEPTACLE.

SPECIFICATION forming part of Letters Patent No. 753,297, dated March 1, 1904.

Application filed December 11, 1902. Serial No. 134,781. (No model.)

*To all whom it may concern:*

Be it known that I, JACOB E. NEAHR, a citizen of the United States, and a resident of Melrose, Middlesex county, Massachusetts, have invented certain new and useful Improvements in Match-Receptacles, of which the following is a specification.

My invention has relation to match boxes or receptacles and is intended to provide a device of this class whereby provision is made for using an easily-renewable coated surface on which the matches are struck to be ignited. This striking or igniting surface may be formed of a suitable chemical preparation for igniting safety-matches or it may be formed of the ordinary sand or emery or any rough-coated surface for the purpose of igniting ordinary matches and the like.

To this end my invention consists in a match-box containing a strip of suitable coated material so positioned as to be easily struck by the match to be ignited and capable of adjustment in order to present from time to time fresh portions of the coated material in operative position for use. This and other features of my invention will be more particularly described in this specification and will be defined in the claims, forming part thereof.

In the drawings I have illustrated one of the many forms under which my invention may be embodied, Figure 1 being a vertical elevation in central section of the complete device, Fig. 2 being a detail view in elevation of the receptacle for the flexible striking-strip, Fig. 3 being a plan view of the same, partly in section; Fig. 4, a plan view of the spring device for holding the flexible strip in operative position, Fig. 5 being an elevation of the detail shown in Fig. 4.

The form of my device herein shown comprises a base portion *a*, having an upright standard *b*, on which is mounted a cylindrical box or receptacle *c*, which serves as a holder for the coated strip *d*, which forms the striking-surface against which the match is ignited. This receptacle *c* is covered over the top by a cover *e*, which has a suitable annular flange extending upward, as indicated at *e'*, to serve as a match-receptacle. The cylindrical wall of the receptacle *c* is provided with a vertical

slot, which may be formed by striking in a portion of the metal, as shown at *d'*. This vertical slot forms an aperture through which the outer end of the flexible strip *d* is passed. In order to form a support or backing for the flexible strip which will also permit the drawing out of a portion of the strip from time to time to present a fresh striking-surface, I have provided a curved or annular spring *g*, which may be fastened in the interior of the receptacle *c* by any suitable means, so as to permit the spring *g* to exert a proper tension outward, both for the purpose of clamping the strip between itself and the wall of the receptacle and also to form a backing inside of the flexible strip wherever the outside wall of the receptacle *c* is cut away as shown at *d''*, for example, in order to expose the surface of the strip *d*, so as to permit its being scratched by a match. This aperture *d''*, extending part way around the periphery of the box *c*, may be of any desired shape or length. The means that I have herein shown for suitably holding the spring *g* in place comprises a circular disk *g'*, adapted to rest upon the bottom of the receptacle *c*. The periphery of this disk is notched, as shown at *g''*, in order to interlock or engage with the intumed lip *d'* of the annular wall of the receptacle *c*, this lip *d'* serving to prevent any torsional movement or displacement of the disk *g'* and the spring *g*, which spring is herein shown as being formed integral with said disk. The outer end of the spring *g* is preferably turned in or rounded somewhat, as shown at *g'''*, so as to make a flaring entrance to the annular space between the spring *g* and the outside wall of the receptacle *c*. A central pin *b'* is shown as extending up through the bottom of the receptacle *c*, so as to form an arbor which may serve the double purpose of retaining the box in place by means of a screw-threaded connection, as shown at *d'''*, with the supporting-standard and also of forming a positioning-pin about which the flexible strip may be wound.

For convenience in manufacture the various parts—such as the base, the supporting-standard, the strip-containing receptacle, and the cover therefor provided with the receptacle



for matches—may be made in separate pieces which are detachably assembled together in operative position.

The flexible strip may be provided with any scratch-surface suitable to the particular kind of matches which it is desired to use in the match-box—that is, it may have the ordinary rocking surface for ordinary power matches or may be provided with a chemically-treated surface for safety-matches.

The use of my device will be readily understood. The receptacle *c* is made sufficiently large to hold a strip of coated material of considerable length. This is placed in position over the central arbor or pin *b'*, and its outer end is inserted between the spring *g* and the annular wall of the receptacle *c* and is drawn along in the space between this spring and the wall by the aperture *d'*, and its outer end is then passed through the vertical slot *d''*. The spring *g* presses normally downward and forms a suitable backing for the exposed portion of the strip *d*, while at the same time by its pressure serving to hold said strip against torsional displacement. As soon as the exposed portion of the strip has become worn out or rendered inefficient the projecting outer end of the strip is drawn forward until a fresh surface is presented to the aperture *d'*. This action may be repeated until the entire strip is consumed. Besides thus affording a simple and convenient means for rapidly renewing the scratch-surface the particular form of receptacle is economical, inasmuch as it presents a curved coated surface to the action of the match, and as the match is commonly scratched in a plane tangent to this curved surface it will form a contact with the scratch-surface for only a very short distance, thereby economizing in the consumption of the coating placed on the flexible strip.

Without attempting to describe the manifold forms under which my invention may be embodied or all the modes of its use, what I claim is—

1. A match-box embracing in its construction a receptacle, a spring mounted therein to press against the wall of said receptacle, a disk for holding said spring in place, means for

locking said disk against movement, and a flexible strip of igniting material passed between said spring and the wall of said receptacle so as to expose a portion of its surface to be scratched by matches.

2. A match-box embracing in its construction an annular receptacle provided with a transverse slot formed by striking in a portion of the annular wall of said receptacle to form a lip, a disk provided with a notch adapted to interlock with said lip, an annular spring carried by said disk and a strip of igniting material adapted to be contained in said receptacle and to be passed between said spring and said annular wall so as to expose a portion of its surface.

3. A match-safe embracing a supporting-base, a hollow chamber constructed to hold a coiled strip of igniting material in position to be scratched by matches, said chamber being supported on said base, a cover for said chamber, said cover being provided with a pocket for matches, substantially as described.

4. In a match-box the combination of a hollow casing constructed to contain a coiled strip, said casing being formed with an aperture in its wall, a coiled strip of material for igniting matches arranged with its outer end passed in front of said aperture, and a spring disposed to press said strip against the casing on either side of said aperture to hold it against displacement when matches are scratched against the strip, substantially as described.

5. In a match-box the combination of the hollow cylindrical casing provided with an elongated aperture in its peripheral wall, a strip of igniting material arranged to have its free end exposed at said aperture, a curved spring arranged to press outward against the peripheral wall of the casing to clamp the igniting-strip removably in place, substantially as described.

In witness whereof I have hereunto set my hand this 9th day of December, 1902.

JACOB E. NEAHR.

In presence of—

GEO. N. GODDARD,  
KATHARINE A. DUGAN.