

E. G. HARROP.
FINGER RING.

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1,018,663.

Patented Feb. 27, 1912.

Fig. 1.

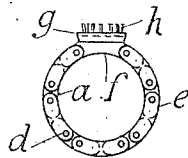


Fig. 4.

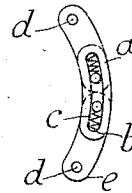


Fig. 2.

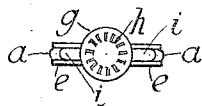


Fig. 5.

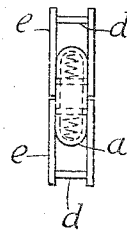


Fig. 3.

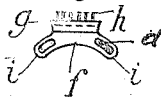
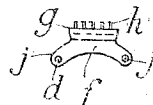


Fig. 6.



Witnesses:

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FINGER-RING.

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To all whom it may concern:

Be it known that I, EDWIN GEORGE HARROP, a subject of the King of England, residing at London, in the Kingdom of England, have invented a new and useful Improvement in Finger-Rings, of which the following is a specification.

This invention has reference to the manner of and means for providing expanding flexible articles of jewelry composed of a plurality of spring-controlled links in permanent engagement with each other, and my object is to apply a suitable similar construction to the manufacture of finger-rings; that is to say I form rings of hollow middle links each made in a single piece and finished upon a mandrel with the ends closed and brazed before receiving the springs, said links having longitudinal side slots through which the springs are inserted and which then engage cross-rods of outer links. The shape of the outer links of the ring may be uniformly flat arranged edge-wise and slightly curved so as to apply closely to the finger.

A more comprehensive description of my present improvement will now be given with reference to the accompanying drawings in which:—

Figure 1 is a front elevation of the expanding flexible ring; Fig. 2 is a plan thereof; Fig. 3 is a detached view of the middle portion of the ring; Fig. 4 is an enlarged face view of one of the slotted middle links in engagement with two consecutive outer links; Fig. 5 is an enlarged edge view of the middle link in engagement with its outer links; Fig. 6 is a face view of a slightly modified middle portion of the ring.

As shown more particularly in Figs. 4 to 6, the middle links *a* are formed of a single piece closed at both ends and the longitudinal side slots *b* are formed by the mandrel and closed before the springs *c* are introduced. Thus the helical springs *c* will not be damaged by the soldering of the ends or any other parts of the links. The cross-pins *d* of the outer links *e* work in the slots *b*. The main portion *f*, comprising the crown *g* and setting *h*, is formed with two opposite short slotted links *i* of a length about half that of the links *a* and each containing a single helical spring such as the springs *c* used in the said links *a*. The first and the last of the outer links *e* engage with the links *i* and links *a* respectively. Ob-

viously the same arrangement can be effected with a middle portion having pin-jointed links *j* such as are shown in Fig. 7, for engagement with slotted links *a*. Further, instead of the crown *g* with setting *h* any other ornamental or plain part may be adopted. Rings constructed with these longitudinally slotted middle links in combination with spring-controlled outer links will contract automatically and will readily expand to pass over the knuckle of a finger and then contract so as to form a snug fit thereon. It will adapt itself to the shape and size of various fingers of the hand and will yield to natural increase of plumpness or loss of flesh of the hand, while insuring against unintentional slipping off and yet allowing its easy removal over prominent knuckles without the use of special means.

I claim:—

1. An expanding flexible ring construction, comprising a series of middle links constructed with spring housings and having relatively narrow, longitudinal side slots, side links arranged on either side of the middle-links, pins connected to said side links and joining them together in pairs, said pins being constructed to pass endwise through the spring housings in assembling and being rotatable in said slots to permit flexibility of the chain in the direction transverse to the plane of the links, springs located between the inner ends of said spring housings and said pins, a crown member, diametrically opposed extensions carried by said crown member of a width substantially equal to the width of the spring housings, each of said extensions having adjacent its end an arcuate slot, pins carried by the end pairs of said links working in said slots and springs in said slots bearing between said pins and the ends of the slots remote from the setting.

2. An expanding flexible ring or the like, comprising a series of hollow middle links, constructed with spring housings and narrow side slots, side links arranged on either side of the middle links, pins constructed to pass endwise through said side slots, and to rotate therein and permit transverse flexibility in assembling the parts and having their ends rigidly connected to said side links and joining them together in pairs, springs substantially fitting the spring housings, confined by the side walls thereof and located between the inner ends of said hous-

ings and the pins, a crown member, diametrically opposed extensions carried by said crown member of a width substantially equal to the width of the spring housings, each of said extensions having adjacent its end an arcuate slot, pins carried by the end pairs of side links working in said slots and springs in said slots bearing between said pins and the ends of the slots remote from the setting.

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Witnesses:

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