May 24, 1927. 1,629,976

J. SMITH, JR

EXPANSIBLE BRACELET

Filed March 20, 1926

Fig. 1.

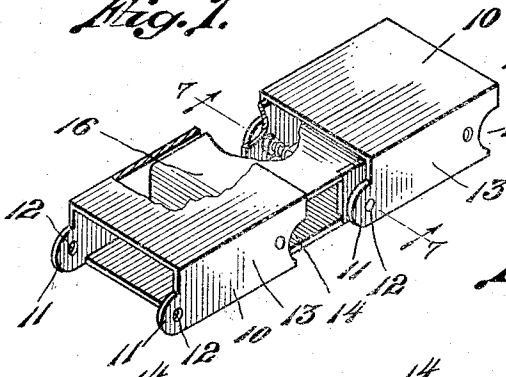


Fig. 2.

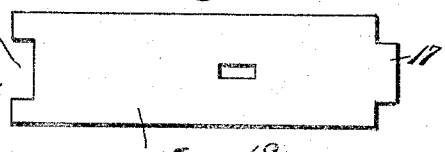


Fig. 3.

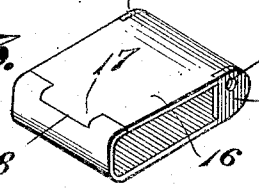


Fig. 5.

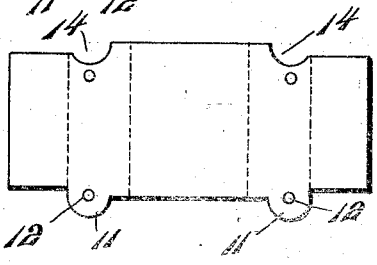


Fig. 4.

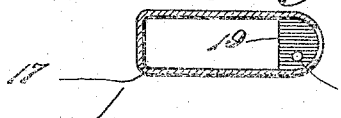


Fig. 6.

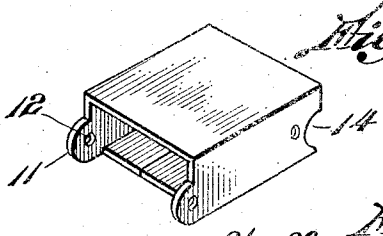


Fig. 7.

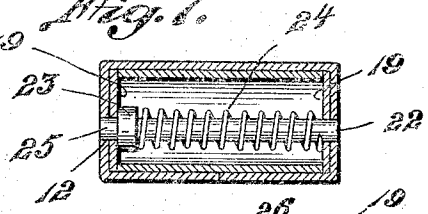


Fig. 8.

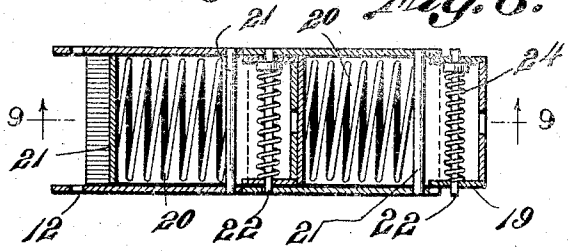


Fig. 11.

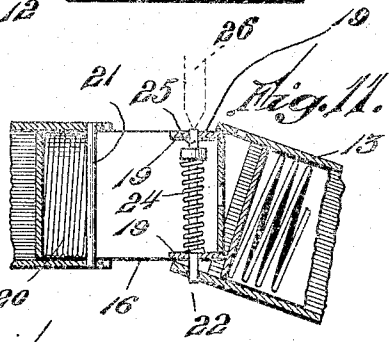


Fig. 9.

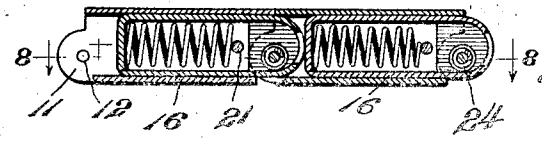
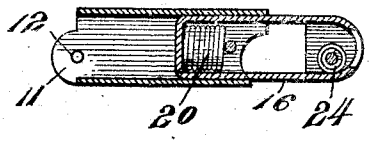


Fig. 10.



INVENTOR.
John Smith, Jr.
BY Barber & Barber
ATTORNEYS.

Patented May 24, 1927. 1,629,976

UNITED STATES PATENT OFFICE.

JOHN SMITH, JR., OF NORTH ATTLEBORO, MASSACHUSETTS, ASSIGNOR TO J. J. SOMMER & CO., A FIRM COMPRISING JOHN J. SOMMER AND EDMOND T. SOMMER, BOTH OF NORTH ATTLEBORO, MASSACHUSETTS, COPARTNERS.

EXPANSIBLE BRACELET.

Application filed March 20, 1926. Serial No. 96,184.

This invention relates to an improved construction of bracelet or chain formed of a plurality of links flexibly and detachably connected together; and the object of this invention is the construction of such a bracelet or chain having links mounted to telescope one within the other to render the same extensible in the direction of their length and adapted to be separated for the purpose of adding to or removing one or more links from the chain to adjust its operating length.

A further object of this invention is to construct a series of outer or box links with a slide link in each of these box-shaped links and to connect one end of the slide link to the next adjacent box link by means of a pin, the pin being so mounted as to permit the links to be readily connected to and disconnected from each other.

A further object of the invention is the provision of a spring for pressing the connecting pivot pin to its operating position, whereby this pin may be readily forced back against the spring tension to permit the ready disconnecting of one link from the other.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings:

Figure 1 is a perspective view partly broken away to illustrate two box links connected by a slide link the latter being extended, one end of the slide link being pivotally connected by a pin to the next adjacent box link.

Figure 2 shows a blank as cut from sheet stock adapted to be folded into a band-shaped slide link.

Figure 3 shows the slide link as folded into band shape from the blank.

Figure 4 is a sectional edge elevation of the band link shown in Figure 3.

Figure 5 is a blank cut from sheet stock adapted to be folded to form an outer box link.

Figure 6 shows this blank as folded into box form.

Figure 7 is a section on line 7—7 of Figure 1, showing the spring pressed pin as detachably connecting the box link and a band link together.

Figure 8 is a sectional top view illustrating the spring pressed pin as connecting the links together and showing a second pin extending through the box link to provide an abutment for one end of the spring which presses the links toward closed position.

Figure 9 is a central sectional side elevation of the parts shown in Figure 8.

Figure 10 is a sectional elevation showing the band link as extending from its box link with the spring therein being compressed.

Figure 11 is a sectional top view showing the connecting pin as having been partially removed and illustrating the next adjacent box link as having one edge positioned over one end of the pin and about to be swung around into alignment to be engaged by the opposite end of the pin to connect the two links together.

It is found in the practical construction and operation of bracelets of this character, of advantage to provide a bracelet with inner and outer links, the inner link being preferably in band form and adapted to slide in the outer link and to provide simple and effective means by which these links may be connected to and disconnected from each other; also to so construct the links as to permit them to be swung relatively inwardly out of alignment with each other, and to accomplish this in a simple and effective way, I have provided a pivot pin by which the slide link may be readily connected to the band link, the ends of the pin extending through both links to connect them together and the pin being pressed to its operating position by a spring whereby it may be depressed from this position by a small instrument to permit the connecting links to be swung around at an angle and so disconnect one from the other, whereby some of the links may be removed to shorten the bracelet, or others inserted if desired to increase the working length thereof; and the following is a detailed description of the present embodiment of my invention and showing one construction of bracelet by which these advantageous results may be accomplished:—

With reference to the drawings, 10 desig-

nates the outer box links which are preferably formed from sheet stock, the blank of which is best shown in Figure 5, which may be bent or folded into box shape, the side walls 13 at one end of this link being provided with ears 11 which are pierced as at 12. The opposite ends of these box links being undercut as at 14 to receive the ears 11 of the next adjacent box.

In order to provide a practical, connecting link 16 which is slidably mounted in each box link, I have formed the same from a strip of sheet metal 15 and have folded the same into band shape, as best illustrated in Figure 3, the opposite ends being provided with a tongue 17 and a slot 18 to fit one within the other to retain these ends in alignment. One end of this band is preferably provided with short, side ears or plates 19 which are pierced as at 20 to receive the pivot pin presently described.

In assembling the bracelet or chain the inner slide link is positioned in its outer box link, a spring tension coil 20 being positioned in the slide link and an abutment pin 21 is passed through the box link against which one end of this spring 20 rests while its opposite end engages the opposite end wall 21 of the band slide link to press the same towards contracted position.

In order to connect the opposite end of this band link to the adjacent end of the next box link, I have mounted a pivot pin 22 in the end of this band link to cause its opposite ends to extend through the ears or walls 19 of this band, the pin being provided with a shoulder 23 against which one end of the spring 24 rests, the opposite end of the spring engaging the inner surface of the opposite ear 19 to press this pivot pin to its operating position causing its end 25 to extend through the opening 12 in the ear 11 of the box link. When it is desired to disconnect the box link from the band link, it is only necessary to employ a pin 26, as best illustrated in dotted lines in Figure 11, to press this end 25 inwardly, then by swinging the box link around at an angle to the band link it may be removed from this depressed end of the pin, after which it may be moved laterally off of the opposite end of the pin to separate the two members, and the reverse movements being employed to connect these links together.

My improved bracelet is very simple to construct and is practical in its operation; its links may be readily disconnected to remove or insert one or more links to or from the chain for adjusting its operating length, and by connecting the links together by a pivot pin which passes through the ears at a point near the inner edge thereof, the links are very flexible and may be swung inwardly at a sharp angle to each other.

The foregoing description is directed solely towards the construction illustrated, but I desire it to be understood that I reserve the privilege of resorting to all the mechanical changes to which the device is susceptible, the invention being defined and limited only by the terms of the appended claims.

I claim.

1. An extensible chain structure comprising a series of box links, a slide link in each box link, and a pin mounted in said slide link for free endways movement, the ends of said pin being detachably and pivotally connected to one end of the next adjacent box link and means for retaining said pin in position to connect the box link.

2. An extensible chain structure comprising a series of box links, a slide link in each box link, a pin endways movably mounted in said slide link with its ends detachably and pivotally connected to one end of the next adjacent box link, and a spring retaining said pin in operating position and permitting the same to be yieldingly moved endways to detach it from the box link.

3. An extensible chain structure comprising a series of box links, a band-shaped slide link in each box link, one end of said band link having pierced side wall portions, and a pin freely movable endways through the piercing in said wall portions into engagement with the walls of the box link to pivotally connect the two links together, and means caried by the pin between said wall portions to engage therewith and normally retaining said pin in position to connect the box link.

4. An extensible chain structure comprising a series of box links, a band-shaped slide link in each box link, one end of said band link having pierced side wall portions, and a pin extending through said walls into engagement with the walls of the box link to pivotally connect the two links together said pin being yieldably mounted to disconnect said links when desired.

5. An extensible chain structure comprising a series of box links, a band-shaped slide link in each box link, interengaging pierced ears on both of said links, a pin extending through the piercings in said ears pivotally connecting one end of the slide link with the next adjacent box link, and a spring for yieldingly retaining said pin in operating position.

In testimony whereof I affix my signature.

JOHN SMITH, JR.