

No. 884,344.

PATENTED APR. 7. 1908.

J. H. SAYRES.
SASH CHAIN FASTENER.
APPLICATION FILED NOV. 20, 1907.

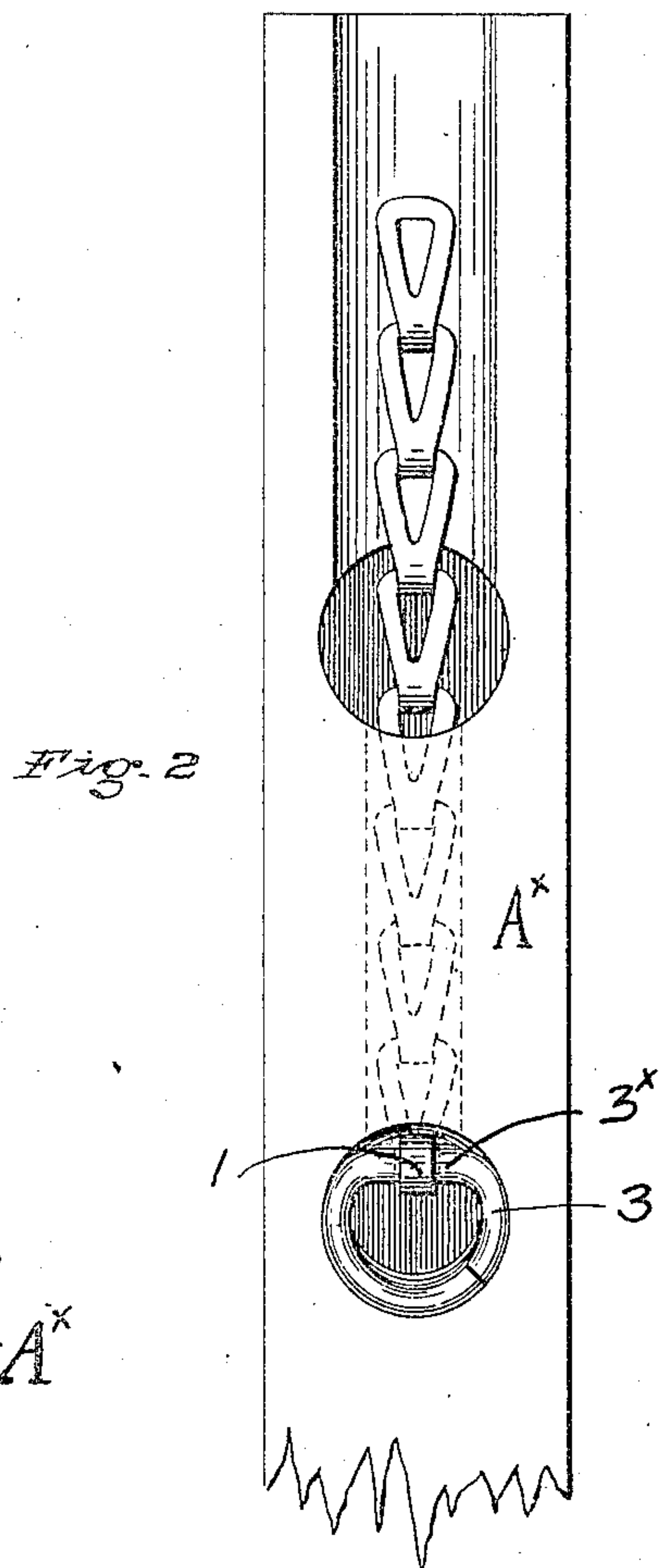
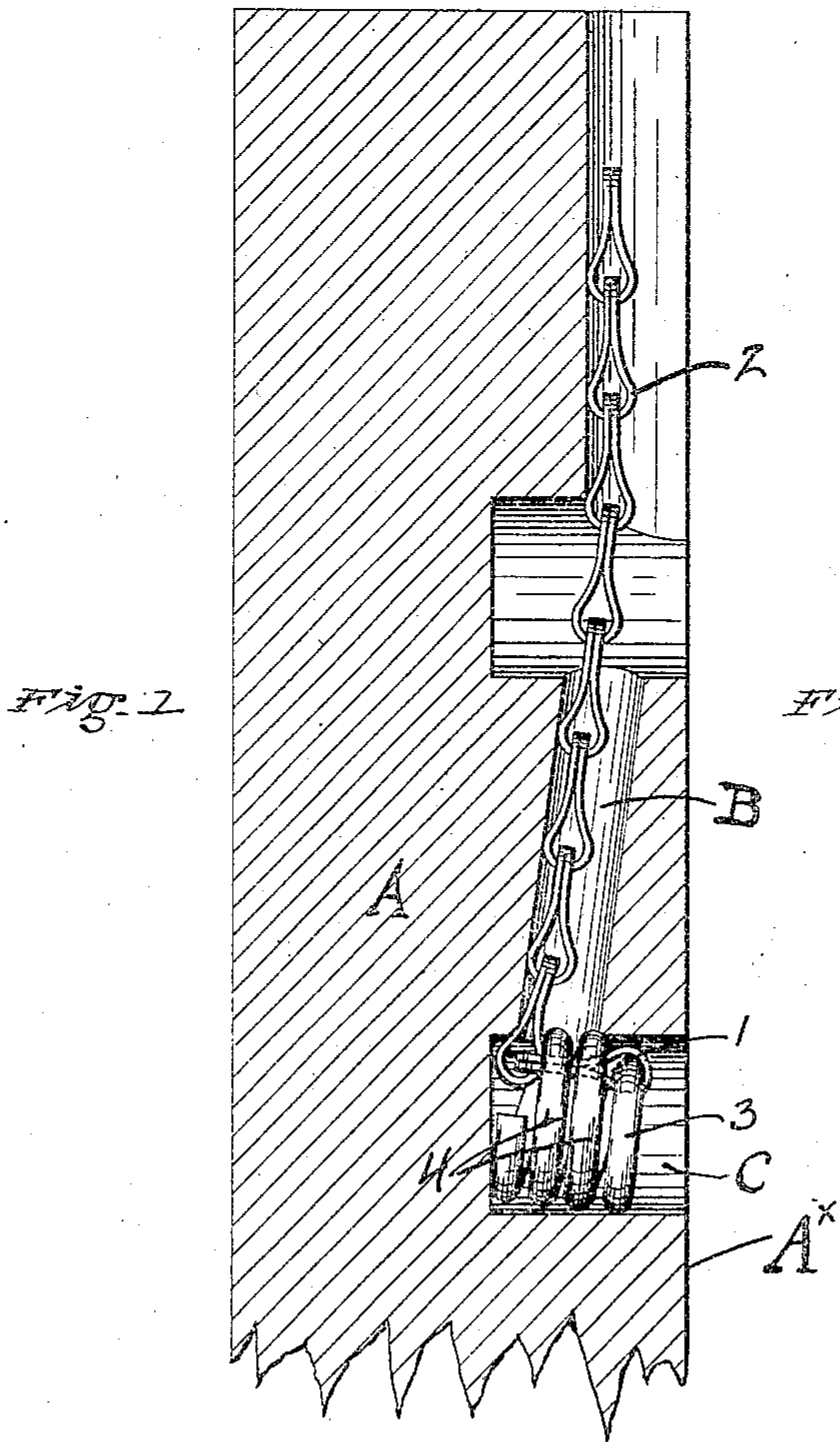
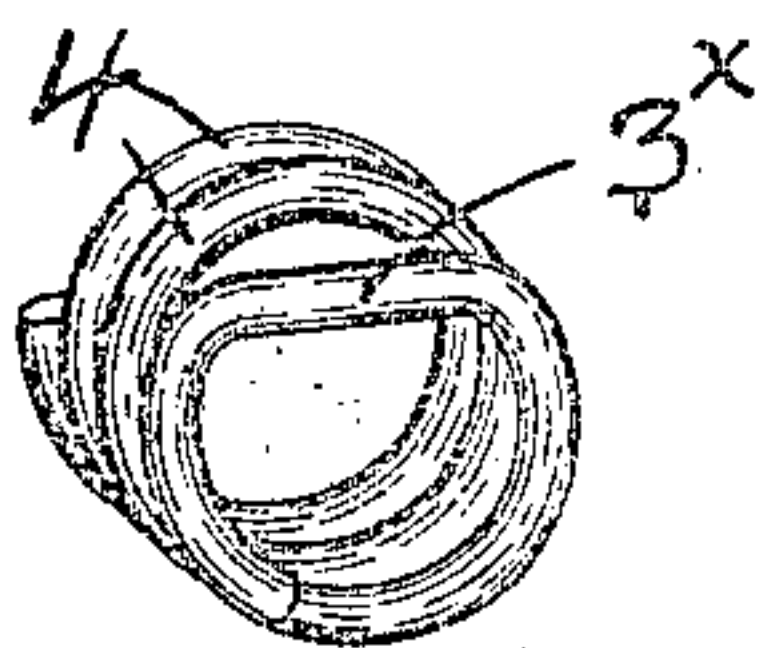


Fig. 3



WITNESSES

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JOHN H. SAYRES, OF BROOKLYN, NEW YORK.

SASH-CHAIN FASTENER.

No. 884,344.

Specification of Letters Patent.

Patented April 7, 1908.

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To all whom it may concern:

Be it known that I, JOHN H. SAYRES, a citizen of the United States of America, residing in the borough of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Sash - Chain Fasteners, of which the following is a specification.

My invention relates to sash chain fasteners and has as its object to provide a simple, compact and efficient device composed of a single part of sufficient strength to be used in connection with sashes of all sizes.

My invention is illustrated in the accompanying drawings in which

Figure 1 is a section of a sash showing my fastener applied to the chain; Fig. 2 is a side elevation thereof, and Fig. 3 is a perspective of the fastener alone.

Coil or ring fasteners for sash cords or chains have been employed heretofore, but either, where a cord is used, the coil is utilized merely as a washer, a knot being inserted between two spires of the coil and these are apt to separate and let the cord through under strain, or when a chain is used its terminal link is threaded onto a ring, which unless of exceptional strength, is apt to pull out under strain like a hairpin and let the chain through in the same way. These disadvantages I overcome by utilizing a coil fastener but modifying its construction and application in a manner exemplified in the drawing. My object is to distribute the strain of the chain over all the spires of the coil so as to utilize their combined strength. This I accomplish by passing the chain through the coil lengthwise of its axis and threading a link on one of its outer spires, preferably the outermost spire 3 as shown, so that the chain or its terminal link 1 shown, lies practically horizontally across the inner face of the inner spires 4 of the coil. It will be apparent at once that the pull of the weight applied to the other end of the chain is borne by the entire number of spires across which the chain or one of its links lies.

While a perfect coil may be used, the link does not lie flat against the spires 4 unless it is somewhat bent at its loop. Consequently,

inasmuch as this weakens the link, I prefer to flatten at 3^x the spire on which the link is threaded, to accommodate the looped end of the latter and thus permit its shank to rest against the spires 4 without deformation. This flattening of the spire has a further function in that when the link reaches the point 3^x the spires which have been sprung apart during the threading of the link, close again and the free play link is thus confined to the flattened portion. Any possibility of its working off of the coil is thus prevented.

The device is not only inexpensive to make but is simply applied, since all that is necessary after the end of the chain has been pulled through the hole B, is to pass it through the coil and thread its last link onto the spire 3 until it reaches the flattened portion 3^x. A shove or light rap with a hammer will then permanently seat it in the hole C without the use of any screws or nails.

I claim as my invention:

1. A fastener for sash chains comprising a coil having a spire flattened to receive a chain link, substantially as described.

2. A fastener for sash chains comprising a coil having a terminal spire flattened to receive a chain link, substantially as described.

3. A fastener for sash chains comprising a coil having a portion intermediate its ends flattened to receive a chain link, substantially as described.

4. A sash chain fastener, comprising a coil in combination with a sash chain, one end of which extends into said coil lengthwise of its axis and is secured to a spire thereof as and for the purpose described.

5. A sash chain fastener comprising a coil having a flattened spire in combination with a sash chain passing through said coil and secured thereto by a link threaded on said flattened spire, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses.

JOHN H. SAYRES.

Witnesses:

WILLIAM ABBE,

L. H. GROTE.