No. 785,873. PATENTED MAR. 28, 1905.

R. G. GOLDMAN.

CHAIN.

APPLICATION FILED MAY 2, 1904.

Fig. 1.

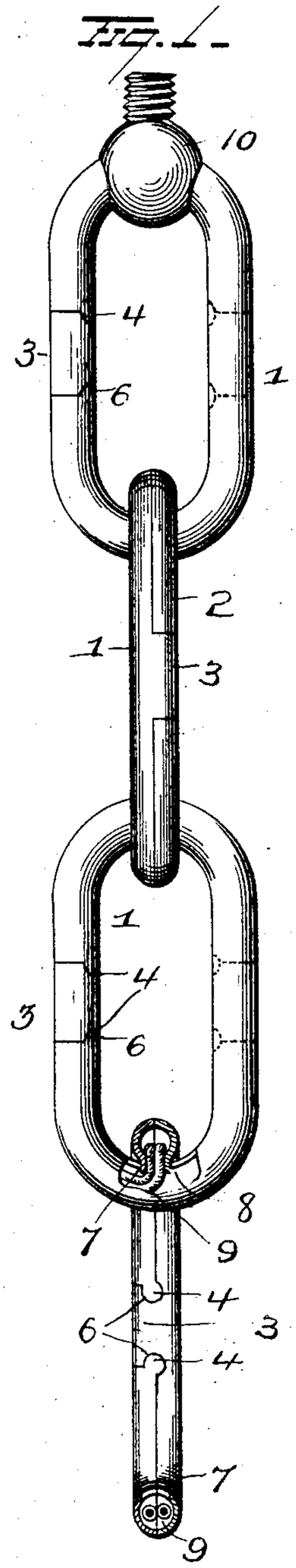


Fig. 2.

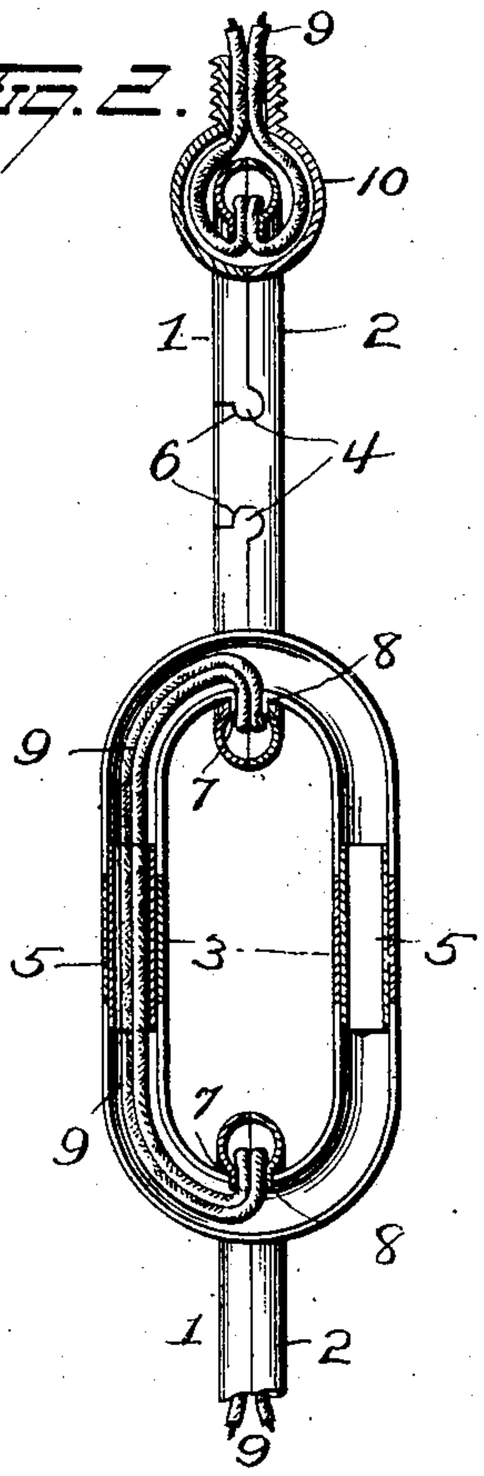


Fig. 3.

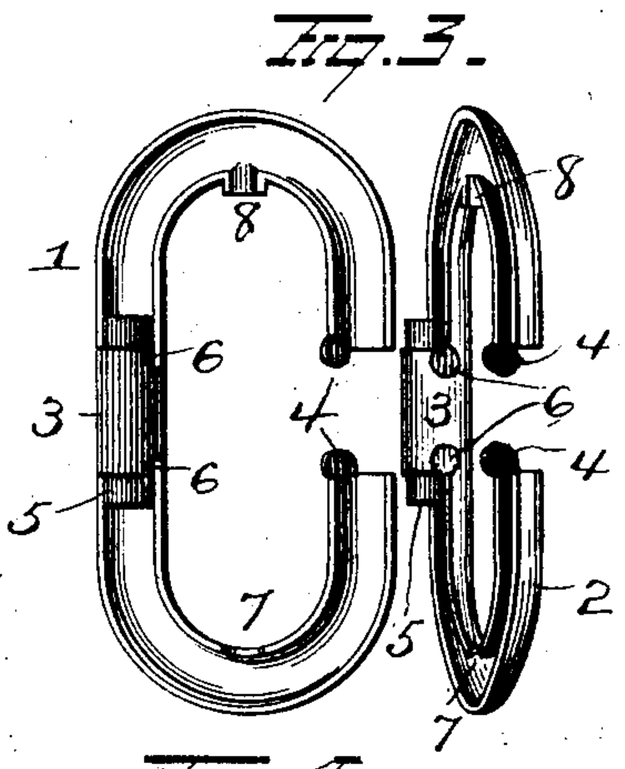


Fig. 4.

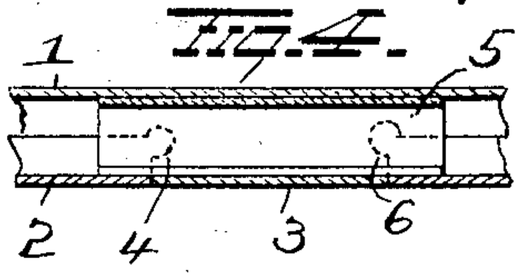


Fig. 5.

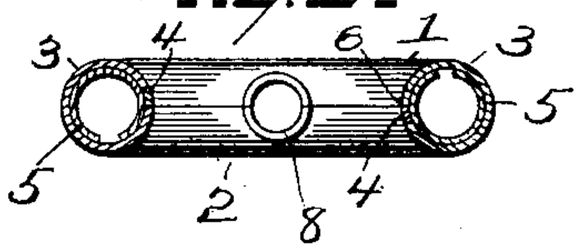


Fig. 6.

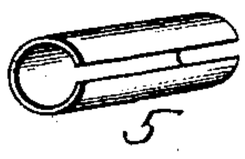
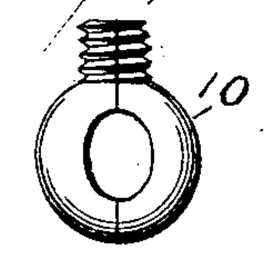


Fig. 7.



WITNESSES

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No. 785,873. Patented March 28, 1905.

UNITED STATES PATENT OFFICE.

RUTHERFORD G. GOLDMAN, OF LOS ANGELES, CALIFORNIA, ASSIGNOR OF ONE-HALF TO C. R. HARRIS.

CHAIN.

SPECIFICATION forming part of Letters Patent No. 785,873, dated March 28, 1905.

Application filed May 2, 1904. Serial No. 206,004.

To all whom it may concern:

Be it known that I, RUTHERFORD G. GOLDMAN, a resident of Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Chains; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in chains, and more particularly to what is known as "art-chains," the object of the invention being to provide improvements of this character in which electric wires are concealed and constructed to afford the easy wiring of the same, and, further, to provide an improved chain of this character of neat and attractive appearance, simple in construction, comparatively cheap to manufacture, and which will be a vast improvement on similar devices now in use.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view illustrating my improvements. Fig. 2 is a view in longitudinal section thereof. Fig. 3 is a view showing the link-sections separated. Fig. 4 is a longitudinal section of one side of a complete link, and Figs. 5, 6, and 7 are views of details of construction.

Each link of the chain comprises two longitudinal half-sections 1 and 2, constructed precisely alike, and form when together a hollow sheet-metal link. Each section comprises a sheet-metal strip stamped into the shape shown and having its ends spaced apart to receive between them the tubular central portion 3 of the adjacent section, which tubular portion is formed by bending over a flap of the strip, and the ends of the sections are made with enlarged tongues 4 to enter correspondingly-shaped recesses 6 in the tubular portions 3 and hold the link-sections together. In each tubular portion 3, a split spring-nipple 5 is located and has its ends projecting beyond the ends of the tubular portion and serves to spring the tongues 4 into recesses 6 and hold them in such position when the link-sections are brought together and pressure exerted thereon.

At one end, on its inner side, each link is provided with an opening 7, and at the diametrically opposite end of the link a tubular nipple 8 is provided and adapted to enter the opening 7 in the adjacent link and to hold the links in proper formation and prevent chafing of the wires therein, as will now be explained.

Electric wires 9, properly insulated, extend through the tubular central portions 3 of one link-section in both directions, and through the opening 7 and nipple 8 of said link, through the adjacent nipples and opening of the next link, and through the next links in like manner throughout the chain, and being entirely hid from view. The wires are first placed in one link-section and the other section sprung into position, and the next link provided with the wires in like manner until the chain of desired length is formed.

At the ends of the chain hollow eyes 10 are provided and comprise spherical balls with opposite openings to receive the end link and made in two sections to permit the eye being inserted on the link, and said eye or eyes have screw-threaded nipples 11 to be screwed into other fixtures or any desired support.

A great many slight changes might be made in the general form and arrangement of the parts described without departing from my invention, and hence I do not restrict myself to the precise details set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

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

1. A chain, comprising a series of hollow communicating links and electric wires concealed in said links, substantially as set forth.

2. A chain, comprising a series of hollow communicating links consisting each of two

longitudinal half-sections secured together, substantially as set forth.

3. A chain, comprising a series of hollow links, consisting each of two longitudinal half-sections, means for locking said sections together, electric wires in said links, and openings at the ends of the links permitting the electric wires to pass from link to link, substantially as set forth.

4. A chain, comprising a series of hollow links, each having an opening on its inner side at one end and a nipple at its other end to enter the opening in the adjacent link, and electric wires passed through and concealed in said links, substantially as set forth.

5. A chain-link, comprising two longitudinal half-sections with ends spaced apart and having locking-tongues, tubular intermediate portions of the link-sections having recesses to receive the locking-tongues, and spring-nipples projecting beyond the ends of the tubular portions to secure by their spring tension, the locking-tongues in the recesses.

6. A chain, comprising a series of hollow links, electric wires passed through and concealed in the links of said chain, an end fitting, comprising a hollow eye made up of two hollow half-sections surrounding the end link and having a threaded nipple or extension thereon, substantially as set forth.

7. A chain comprising a series of communicating hollow open or separable links and electric wires concealed in said links, substantially as set forth.

8. A conduit for electric wires comprising a series of connected hollow communicating links.

9. A conduit for electric wires comprising a series of hollow links, each link passing through and communicating with the adjacent links.

10. A conduit for electric wires comprising a series of hollow separable links connected together end to end.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses

RUTHERFORD G. GOLDMAN.

Witnesses:
F. J. McClary,
Carl Paulz.