

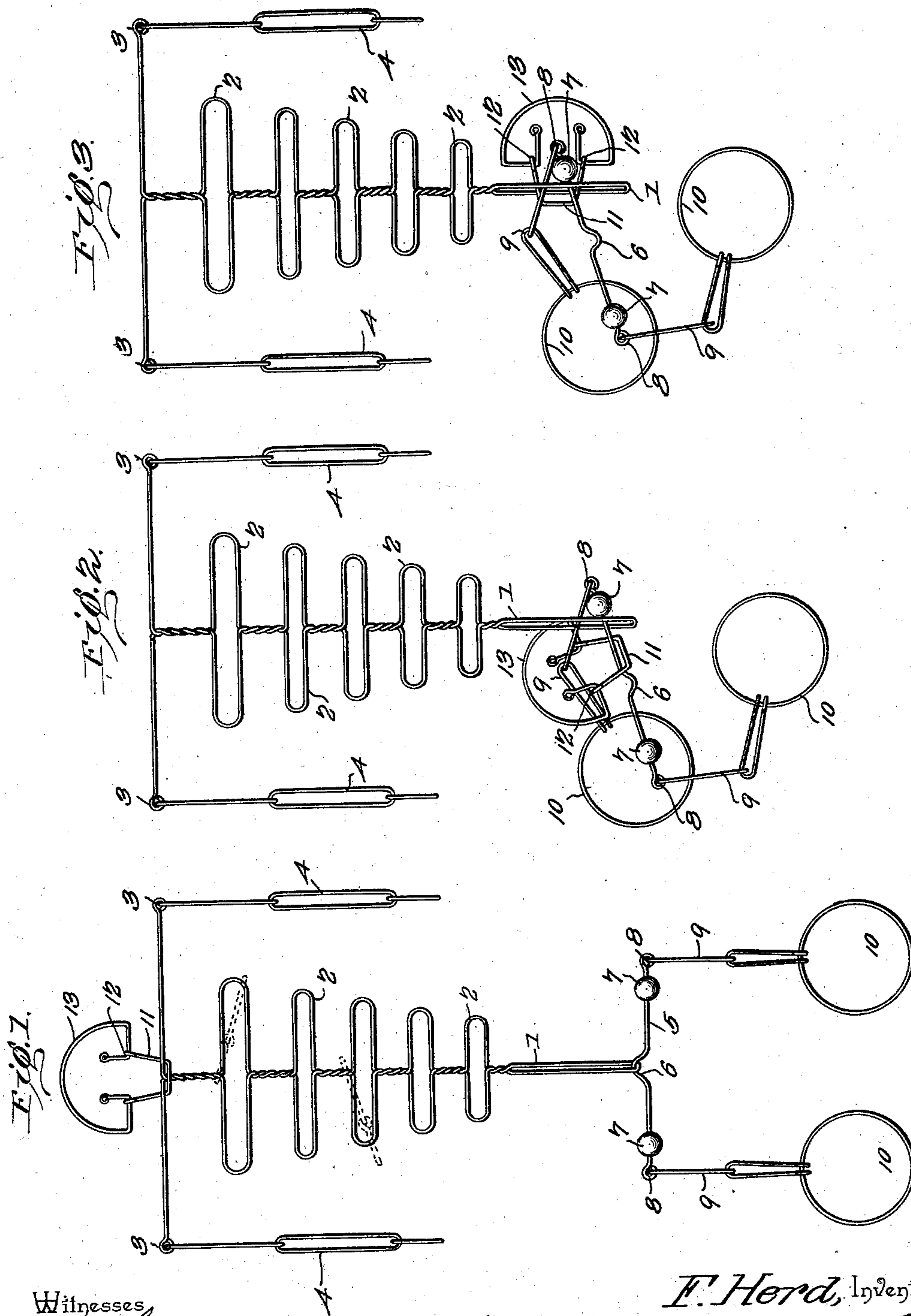
No. 705,759.

Patented July 29, 1902.

F. HERD.
WIRE PUZZLE.

(Application filed Nov. 16, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

FREDERICK HERD, OF BROOKLYN, NEW YORK.

WIRE PUZZLE.

SPECIFICATION forming part of Letters Patent No. 705,759, dated July 29, 1902.

Application filed November 16, 1901. Serial No. 82,584. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK HERD, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented a new and useful Wire Puzzle, of which the following is a specification.

The object of my invention is to provide an improved form of wire puzzle of novel and amusing character; and it comprises in general a member bent into semblance of a human skeleton and a removable member representing the head and neck, the latter member being designed to be removed from place at the waist portion of the main member and the latter being bent to form many obstacles to such removal.

In the accompanying drawings, Figure 1 is an elevation of a puzzle constructed in accordance with my invention, the member representing the head being located in proper position. Figs. 2 and 3 are views similar to Fig. 1, illustrating the positions assumed by the various parts during the removal of the head from the main member.

Similar numerals of reference are employed to designate corresponding parts throughout the various figures.

The main member is so bent as to resemble a human skeleton and comprises an elongated loop 1, situated at the waist, the wire forming said loop being twisted together and thence bent outwardly in opposite directions to form loops 2, representing ribs, said loops 2 gradually increasing in size from the waist to the shoulders. The shoulder portions are formed by bending the ends of the wire outwardly in opposite directions, and such shoulder portions terminate in eyes 3, which carry linked members 4, representing the arms. Passing through the elongated loop 1 is a bar 5, which may represent the pelvis, the central portion of said bar being bent upwardly to form a loop for engaging with the elongated loop. The bar 5 is provided on each side of the elongated loop 1 with a ball 7 of a diameter greater than the width of said elongated loop, so as to prevent passage of said balls therethrough. At the outer ends of the bar 5 are eyes 8, in which are hung links 9, representing the leg members, and said links carry at their lower ends rings 10 of a diameter less than the length of the elon-

gated loop, so that they may freely pass through the same. The removable member is bent to resemble the head and neck and is formed of two pieces of wire, the portion 11 being substantially U-shaped and having terminal eyes 12 for engagement with the head member 13. The head member is formed of a piece of wire having its central portion 60 semicircular in form, the ends being thence bent inwardly toward each other and thence upwardly within the space inclosed by said semicircular portion, as shown more clearly in Fig. 1.

When the parts are assembled, the U-shaped portion 11 embraces the twisted portion of the wire at the juncture of the shoulders, as shown in Fig. 1. The length of the removable member from the bottom of the portion 11 to the top of the portion 13 is less than the length of one of the shoulder-pieces, so that it cannot be removed at this point, but must be gradually worked down over the loops 2 in the manner shown in dotted lines until the waist portion is reached. One of the rings 10 is passed through the elongated loop 1, the links 9 being drawn after it as far as possible, this position being shown in Fig. 2. The ball 7 by coming in contact with the elongated loop 1 will prevent any further movement of the parts. The removable member having reached the waist-line is passed over the lower end of the elongated loop 1 and also over the adjacent ball 7, the end of the bar 5, and that portion of the link 9 which projects to the right of the elongated loop 1 in Fig. 2. The removable member is now looped over the bar 5 and the links 9, but cannot be removed by passing over one of the rings 10, the diameter of the latter being greater than the length of the removable member. The removable member may now be readily separated by passing it through the elongated loop 1 in the manner shown in Fig. 3.

The number of obstructions in the removal of the removable member may be increased to any desired extent and the device may be modified by changing its size, form, or proportions without departing from the invention.

Having thus described the invention, what is claimed as new is—

1. A wire puzzle comprising a main member having a fixed elongated loop, a bar and a link having a limited movement there-through, and a removable member constructed to pass over the bar, link and elongated loop, and to pass through said elongated loop, substantially as specified.

2. A wire puzzle comprising a main member bent into the semblance of a human skeleton and having a fixed elongated loop, a bar and a link having a limited movement through said elongated loop, balls carried by the bar on each side of said elongated loop and forming stops for limiting the movement of the bar, and a removable member forming the head of the figure, said movable member being adapted to be passed through said elongated loop, substantially as specified.

3. A wire puzzle comprising a main body having an elongated loop, a bar passing through said elongated loop, balls arranged on said bar on each side of said elongated loop and of greater diameter than the width thereof, linked members carried by said bar and adapted to be passed through said elongated loop, and a removable member adapted to be passed through said elongated loop and

over one of said balls and the end of the supporting-bar.

4. A wire puzzle comprising in combination, a strip of wire centrally bent to form an elongated loop and thence bent to form representations of the back, ribs and shoulders of the human frame, a transversely-disposed bar passing through said loop, balls carried by said bar on each side of the elongated loop and of a diameter greater than the width of said elongated loop, links hung to the outer ends of said bar, rings of a diameter less than the length of said elongated loop, said rings being hung to the lower ends of said links, and a removable member made in two pivotally-connected sections and adapted to represent the head and neck, said removable member being of a length less than the length of the said elongated loop, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

FREDERICK HERD.

Witnesses:

CHARLES A. HALSTEAD,
ERNEST SINGER.