

No. 621,363.

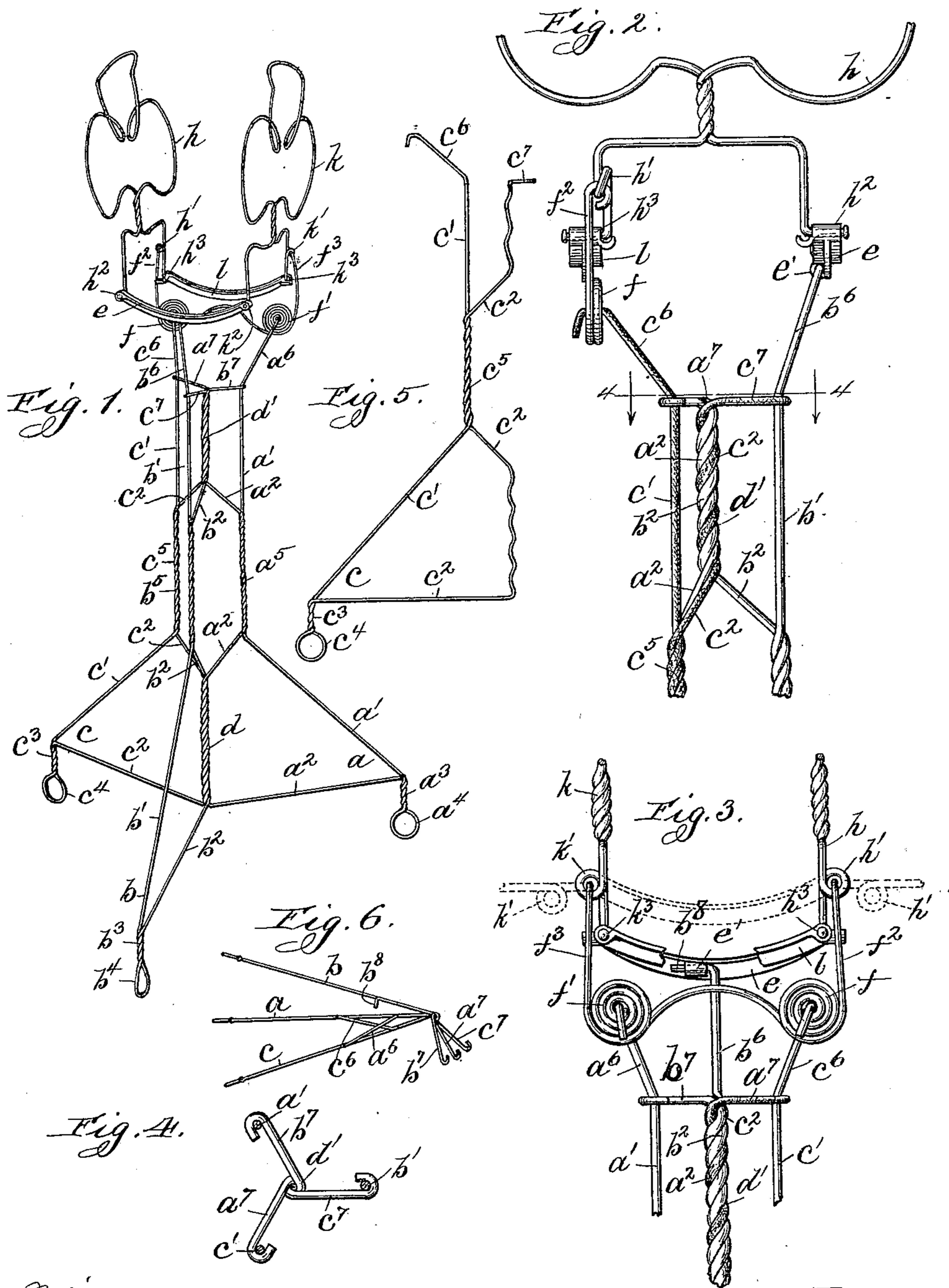
Patented Mar. 21, 1899.

LA VERNE W. NOYES.

DICTIONARY HOLDER.

(Application filed Aug. 22, 1898.)

(No Model.)



Witnesses:  
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# UNITED STATES PATENT OFFICE.

LA VERNE W. NOYES, OF CHICAGO, ILLINOIS.

## DICTIONARY-HOLDER.

SPECIFICATION forming part of Letters Patent No. 621,363, dated March 21, 1899.

Application filed August 22, 1898. Serial No. 689,198. (No model.)

*To all whom it may concern:*

Be it known that I, LA VERNE W. NOYES, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Dictionary-Holders, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to a dictionary-holder, my object being to provide a dictionary-holder formed principally of twisted wires or rods, the same being constructed so that while rigid and effective in operation it may be readily detached and folded for packing and shipment.

I have illustrated my invention in the accompanying drawings, in which—

Figure 1 is a perspective view of the invention. Fig. 2 is a partial view in elevation. Fig. 3 is an end view of the upper end of the standard. Fig. 4 is a sectional view on line 4-4, Fig. 2. Fig. 5 is a view in elevation, showing one of the sections of the standard. Fig. 6 is a plan view of the folded standard.

Like letters refer to like parts in the several figures.

I have illustrated the standard as formed with three sections or legs, but a greater number of sections may be assembled in a similar manner when desired. Each of the sections is formed from a single piece of wire, having the parts thereof twisted together and with the wires of the other sections to form the standard. The section *a* is formed from a piece of wire bent upon itself to form two strands *a'* *a''*, which are twisted together at *a'''*, leaving a loop *a''''* to serve as the foot of the section. The strand *a''* is twisted with the corresponding portions of the sections *b* *c* to form a vertical twisted portion *d*, which constitutes an axial hinge, the strands *a'* *a''* being then twisted together to form the portion *a'''*, after which the strand *a'* extends upward and terminates in the outwardly-extending portion *a''''*, while the strand *a''* extends inward and is twisted with the corresponding portions of sections *b* and *c* to form the vertical portion *d'*, the end of strand *a''* then extending laterally and being secured to the upwardly-extending portion *c''*

of the adjacent section. Sections *b* and *c* are similarly formed and similar parts thereof have been indicated by reference-letters corresponding to those employed in connection with section *a*. The upper end *b''* of section *b* is bent at right angles to form a journal-pin *b'''*, adapted to rest in a transverse bearing *e'*, provided upon the strap *e*, while the upper ends *a''* *c''* of the sections *a* and *c* are bent and pass through the central openings provided in the coils *f* *f'*, which are formed with loops *h'* *k'*, respectively, formed in the wires comprising the sides *h* and *k* of the holder. The upper ends *a'''* *b'''* *c'''* of one strand of each section are bent laterally and hooked over the upright strand of an adjacent section to form braces and to lock the sections against rotation. One end of the wire forming the side *h* is hinged at *h''* to the end of the strap *e*, while the other end is hinged at *h'''* to the strap *l*. Likewise one end of the wire forming the side *k* is hinged at *k''* to the strap *e* and at *k'''* to the strap *l*. Stops are provided upon the ends of straps *e* and *l*, which limit the movement of the sides *h* and *k*, as the same are rotated from the vertical into the horizontal position on opening the book.

As the book in the holder is opened and the sides *h* and *k* are swung upon their hinged connections with the straps *e* and *l*, which support the back of the book, the sides *h* and *k* also swing about the loop-hinges *h'* *k'*, supported by the ends *f''* *f'''* of the coiled spring, and the strap *l* is thus elevated, as shown in Fig. 3, to bring the book into an oblique position, with the upper end of the opened book at a greater elevation than the lower end thereof. The resiliency of the ends *f''* *f'''* of the spring due to the coils *f* *f'* accommodates the lateral movement of the loop-hinges *h'* *k'* as the book is opened.

When it is desired to pack or ship the dictionary-holder, the end *b''* may be withdrawn from the bearing *e'* on the strap *e*, and the ends *a''* *c''* may be removed from the central openings of the coils *f* *f'*, and the sections *a* *b* *c* of the standard may then be rotated about the vertical twisted portions *d* *d'*, which constitute axial hinges, and the sections may thus be folded together, as illustrated in Figs. 5 and 6.

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

1. A standard composed of wire sections having portions twisted together to form an axial hinge about which the sections may be folded, substantially as described.

2. A standard composed of wire sections having portions at the upper and at the lower ends twisted together to form upper and lower axial hinges, substantially as described.

3. A standard composed of wire sections having portions at the upper and lower ends twisted together to form upper and lower axial hinges, the strands of each section being twisted together at an intermediate position, substantially as described.

4. A standard composed of wire sections having portions twisted together to form an axial hinge, and having the upper ends of the wires extending upward to form supports for the book-holder, substantially as described.

5. A book-holder with a transverse pivot and a pair of longitudinal pivots and a standard composed of wire sections having portions twisted together to form an axial hinge, and having the upper ends of the wires extending upward, one to the transverse pivot on the book-holder and two others to the longitudinal pivots thereon, substantially as described.

6. A standard composed of sections each formed of a pair of strands, the wires of the several sections being twisted together to form an axial hinge, the end of one strand of each section extending upward to form the supports for the book-holder, and the end of the other strand of each section being attached to an adjacent section to form a brace or lock, substantially as described.

7. A standard composed of wire sections having portions at the upper and lower ends twisted together to form upper and lower axial hinges, the strands of each section being twisted together at an intermediate position, the end of one strand of each section extending upward to form the supports for the book-holder and the end of the other strand of each section being attached to an adjacent section

to form a brace or lock, substantially as described.

8. A book-holder having a transverse pivot and a pair of longitudinal pivots and a standard composed of wire sections connected together by an axial hinge to permit folding and having the ends of the wires forming the sections extending upward, one to the transverse pivot on the book-holder and two others to the longitudinal pivots thereon, substantially as described.

9. In a dictionary-holder, a standard composed of wire sections connected together by an axial hinge, a book-holder comprising a pair of straps and sides hinged thereto, a spring consisting of a pair of coils and having the ends pivoted to said sides beyond the hinges thereof, the upper ends of said sections terminating one in a transverse bearing in one of said straps, and two others passing through the central openings of said spring-coils, substantially as described.

10. The combination with the book-holder having the two straps and the sides hinged thereto, of the spring consisting of a wire formed into a pair of coils and having the ends pivoted to the sides beyond the hinges, and the standard having one of the wires thereof terminating in a transverse pivot and two others passing respectively through the central opening of the coils of said spring, substantially as described.

11. The combination of the several wire sections hinged together, each having an outwardly-flaring leg, the strands of each leg being arranged in triangular form having the apex of the triangle resting at the foot and the wires at the base of the triangle being twisted together and forming the axial hinge, substantially as described.

In witness whereof I have hereunto subscribed my name in the presence of two witnesses.

LA VERNE W. NOYES.

Witnesses:

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