

No. 702,640.

Patented June 17, 1902.

F. DYER.
HINGE.

(Application filed Oct. 2, 1900.)

(No Model.)

Fig. 1.

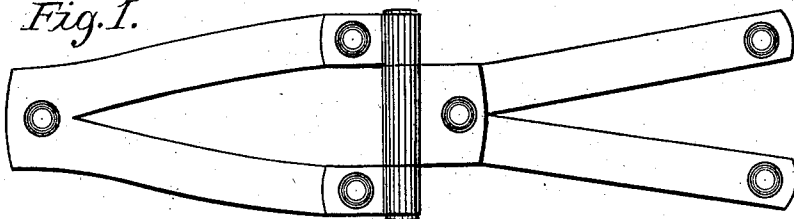


Fig. 2.

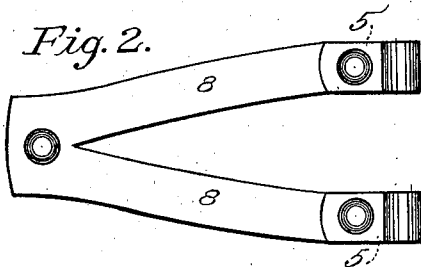


Fig. 5.



Fig. 3.

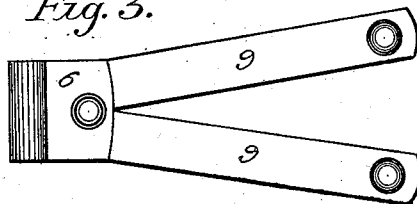
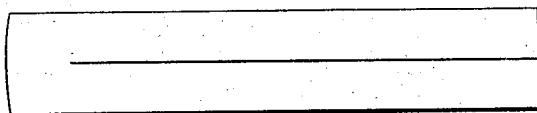


Fig. 4.



Witnesses.

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FAYETTE DYER, OF PASADENA, CALIFORNIA, ASSIGNOR OF ONE-HALF TO HENRY T. HAZARD AND GEORGE E. HARPHAM, OF LOS ANGELES, CALIFORNIA.

HINGE.

SPECIFICATION forming part of Letters Patent No. 702,640, dated June 17, 1902.

Application filed October 2, 1900. Serial No. 32,009. (No model.)

To all whom it may concern:

Be it known that I, FAYETTE DYER, a citizen of the United States, residing at Pasadena, in the county of Los Angeles and State of California, have invented new and useful Improvements in Hinges, of which the following is a specification.

My invention relates to that class of hinges known as "strap-hinges;" and the objects thereof are to provide a strap-hinge which will combine simplicity, durability, and great strength and which can be manufactured without wasting material. I accomplish these objects by the improved construction described herein and illustrated in the accompanying drawings, forming a part hereof, in which—

Figure 1 is a plan view of a complete strap-hinge embodying my invention. Figs. 2 and 3 are plan views of the respective hinge-sections. Fig. 4 is a plan view of a piece of iron from which the sections are formed. Fig. 5 is an elevation of the pintle-bolt by which the sections are united together.

Referring to the drawings, each of the sections 8 and 9 are formed from a piece of strap-iron of suitable length, width, and thickness, cut longitudinally in the center from one end to a point near the other end. In one of the sections 8 the legs or separated ends of the blank are bent over upon themselves to form knuckles 5 and screw-holes made through both parts and at the end opposite the knuckle, as shown. The legs of the section are separated to provide admission therebetween of the knuckle 6 of section 9, which knuckle is formed by the united end being bent over upon itself, as shown, and screw-holes made through both parts and in the ends. The free ends or legs of section 9 are then spread apart, as shown, and the two sections are united together by pintle-bolt 7 to form the completed hinge. By this construction it will be observed that there is no waste material and that the legs of the sections are bent in such directions that each acts as a brace to the other parts. It will also be observed that the knuckles are so constructed that the screw which is used to fasten the hinge to the structure upon which it is used prevents the end of the knuckle from bending away from the pintle-bolt. If desired; the ends of the sec-

tions, which are bent over to form knuckles, need not extend far enough to permit a screw-hole to be made therein; but in such case heavier iron would have to be used.

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

1. A strap-hinge, composed of two hinge-sections, having necessary screw-holes, united by a pintle-bolt, each of which sections is formed from a single blank, longitudinally separated in the center thereof a portion of its length, the separated portions bent outwardly, as shown, to impart bracing strength thereto.

2. In a hinge, a leaf formed from a single metal blank longitudinally separated at one end for a portion of its length into equal portions, said portions being bent outward and provided with pintle-knuckles thereby forming separated bearing members, substantially as described.

3. In a hinge the combination with a leaf formed from a single metal blank separated centrally and longitudinally for a portion of its length, at one end, the separated portions provided with pintle-knuckles and bent outwardly thereby forming braced bearing-arms and a V-shaped space between said portions, of a complementary hinge-leaf having a pintle-knuckle adapted to be seated between the knuckles of the braced bearing-arms of the other leaf, and a pintle pivotally uniting the two leaves, substantially as described.

4. In a hinge, a leaf formed from a single blank, longitudinally separated in the center thereof a portion of its length, the separated portions bent outwardly, as shown, to impart bracing strength thereto.

5. In a hinge, the combination with a leaf formed from a single metal blank separated longitudinally for a portion of its length, at one end, the separated portions provided with pintle-knuckles and bent outwardly thereby forming braced bearing-arms and a V-shaped space between said portions, of a complementary hinge-leaf having a pintle-knuckle adapted to be seated between the knuckles of the braced bearing-arms of the other leaf, and a pintle pivotally uniting the two leaves, substantially as described.

6. In a hinge, a leaf formed of a single

metal blank longitudinally separated at one end for a portion of its length into equal portions, said separated portions being bent outward to impart bracing strength and provided with screw-holes; said united portion being bent to form a pintle-knuckle.

7. In a hinge, a leaf formed of a single metal blank longitudinally separated at one end for a portion of its length into equal portions, said separated portions being bent outward to impart bracing strength and provided with screw-holes; said united portion being bent to form a pintle-knuckle in com-

bination with a companion leaf having separated pintle-knuckles adapted for the reception therebetween of the pintle-knuckle of the first section and a pintle-bolt adapted to unite said section.

In witness that I claim the foregoing I have hereunto subscribed my name, this 26th day of September, 1900, at Los Angeles, California.

FAYETTE DYER.

Witnesses:

G. E. HARPHAM,
MATTIE MCGINNIS.