

(No Model.)

F. JOSEPH.

SWIVEL CLEVIS FOR CHAIN CABLES, &c.

No. 292,493.

Patented Jan. 29, 1884.

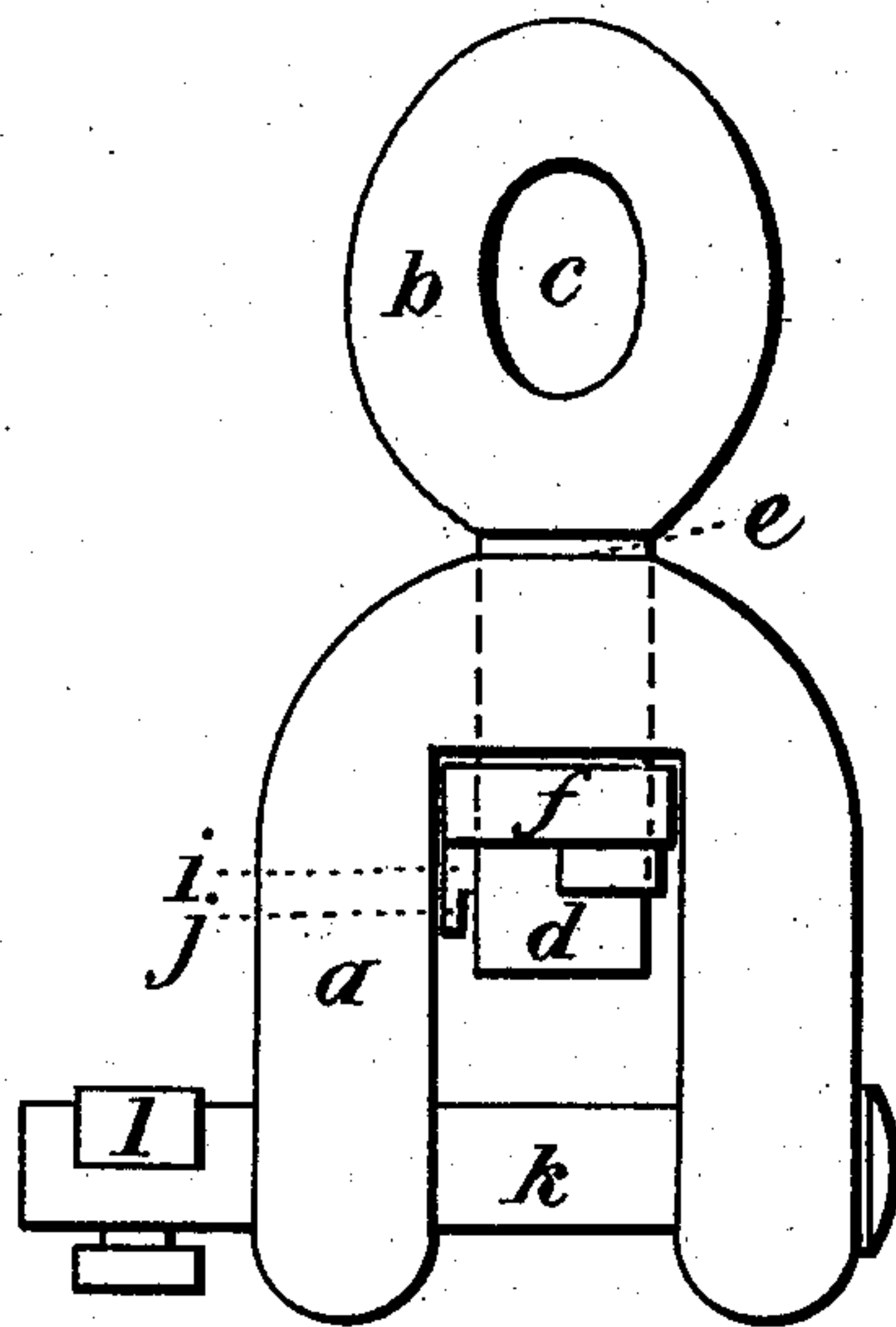


FIG. 1.

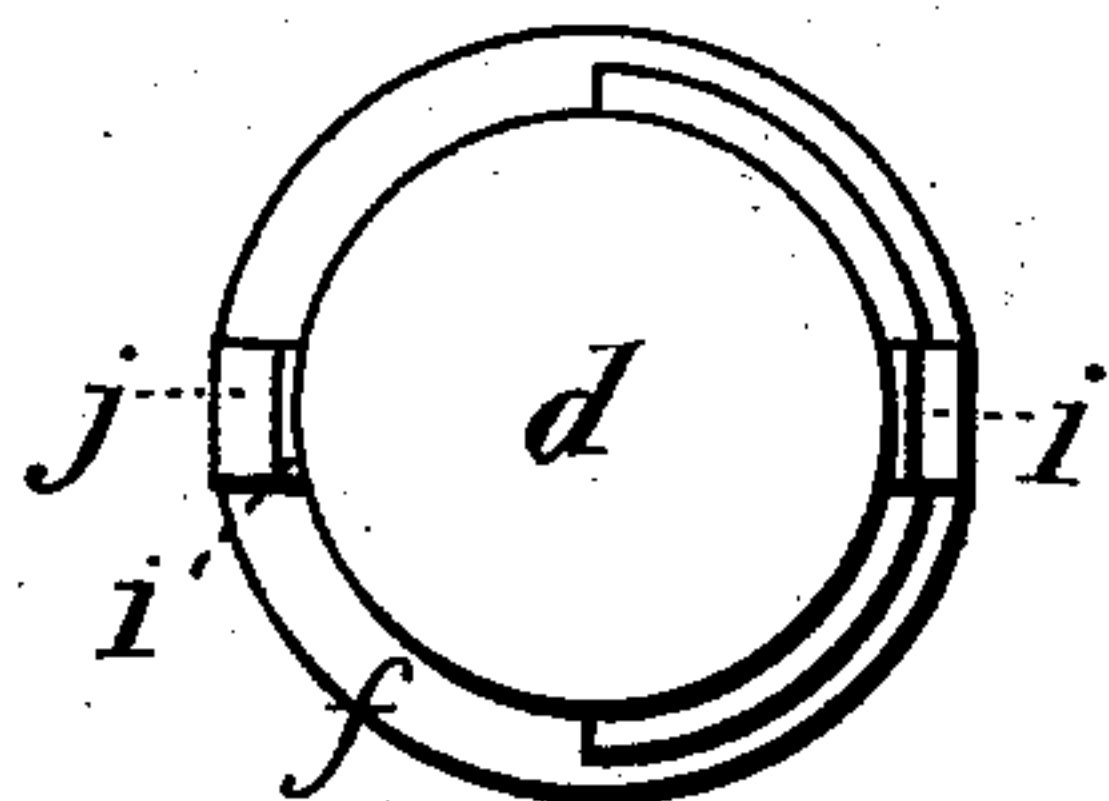


FIG. 2.

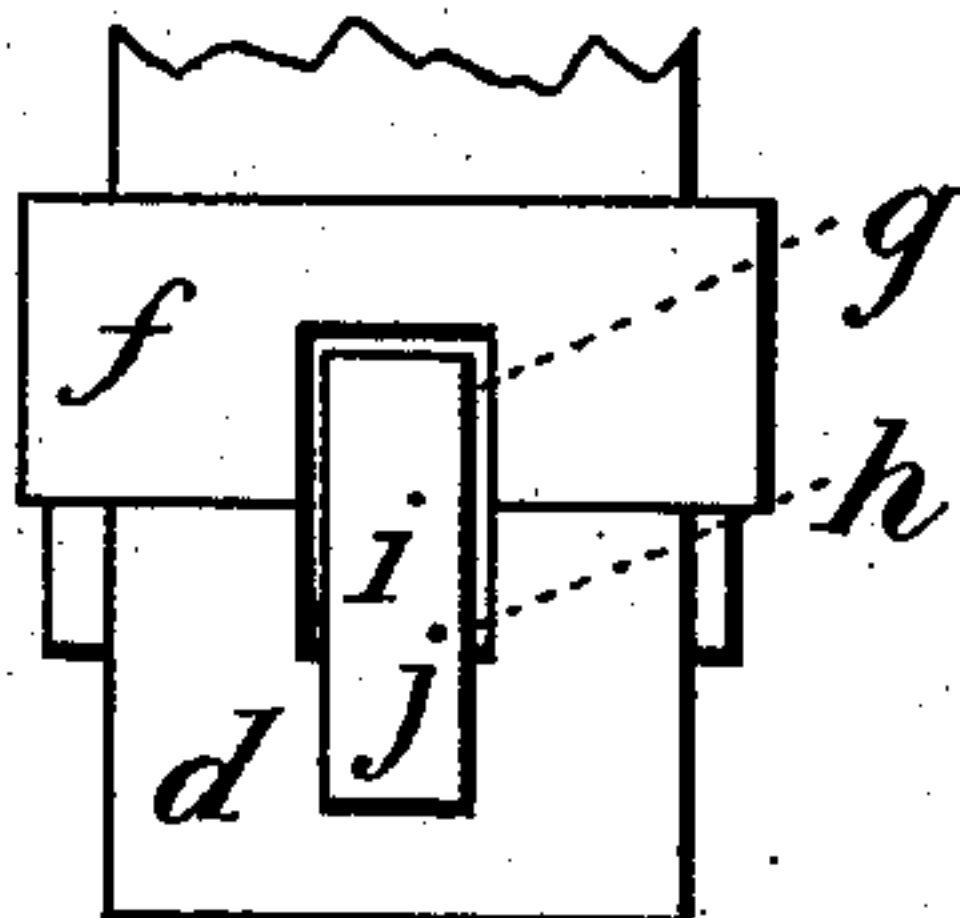


FIG. 3.

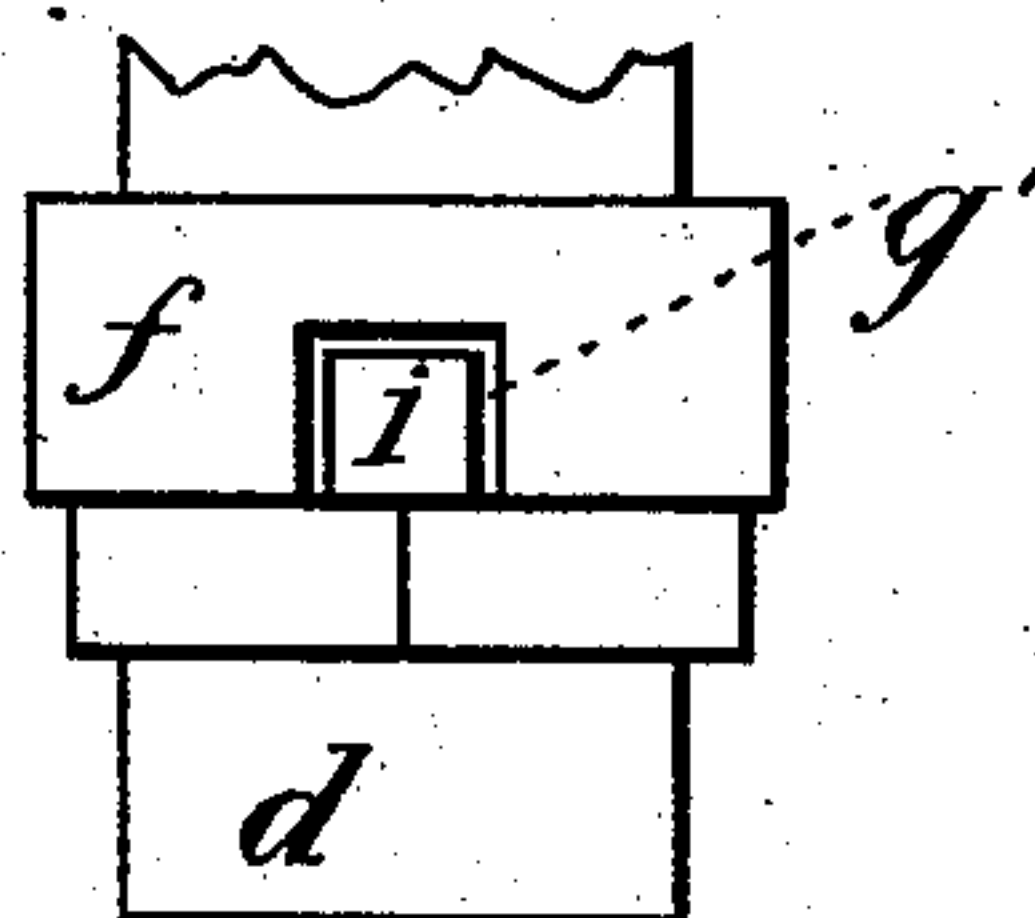


FIG. 4.

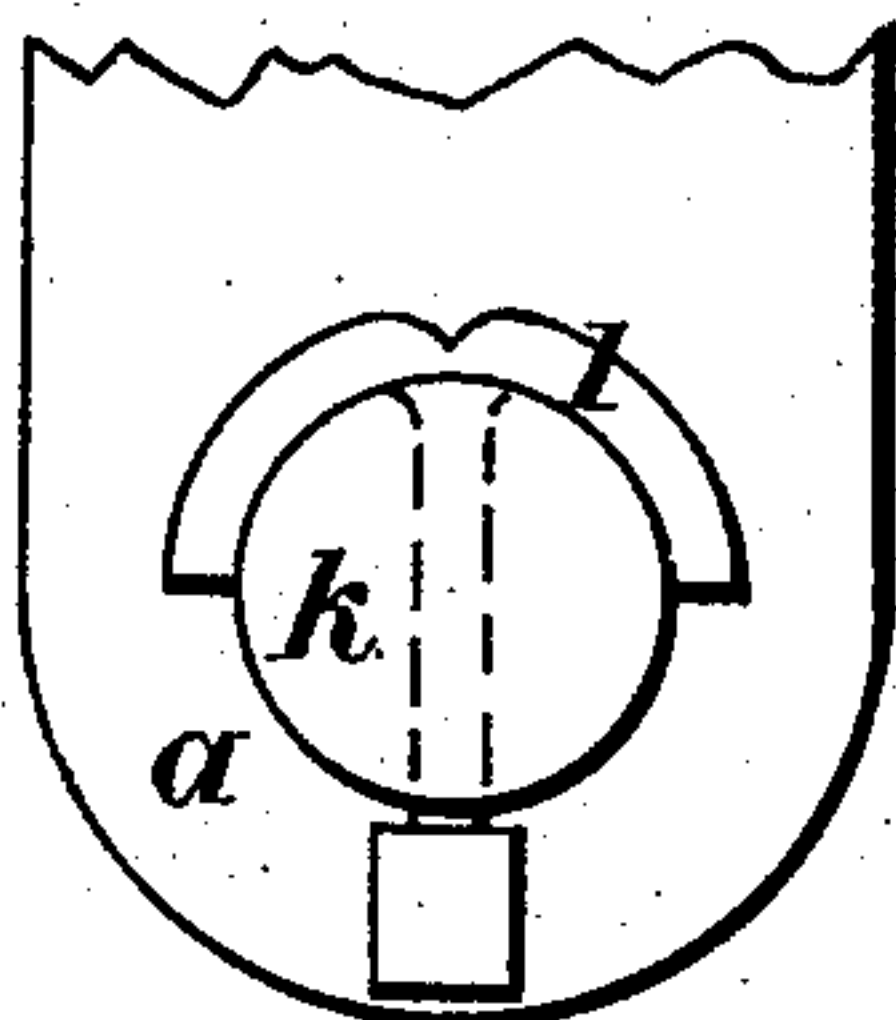


FIG. 5.

WITNESSES:

Chas. H. Kimball.
John P. Fenigan.

INVENTOR:

Frank Joseph
Per Atty.
William Henry Clifford

UNITED STATES PATENT OFFICE.

FRANK JOSEPH, OF PORTLAND, MAINE.

SWIVEL-CLEVIS FOR CHAIN-CABLES, &c.

SPECIFICATION forming part of Letters Patent No. 292,493, dated January 29, 1884.

Application filed March 29, 1883. (No model.)

To all whom it may concern:

Be it known that I, FRANK JOSEPH, of Portland, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Swivel-Clevises for Chain-Cables, &c.; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a side view. Fig. 2 is a bottom view of the swivel. Fig. 3 is a side view, showing the manner of inserting the key in the washer. Fig. 4 is the side of the washer, with key therein, opposite to Fig. 3. Fig. 5 is an end view of the bar, and its key, which connects the swivel with the anchor-ring.

Same letters show like parts.

My invention relates to improvements in anchors. It has for its object to prevent the twisting and knotting of the anchor chain or cable, and also to provide a secure connection of my device to the anchor-ring.

My invention consists in the combination, with a clevis, of a swivel, an eye, a washer, and a key, as herein set forth. Also, in the combination of the clevis-swivel and bar and key, as herein set forth.

a shows the clevis.

b is the swivel. It has the eye *c* and stock *d*. The stock *d* passes through the hole *e* in the bend of the clevis, and turns or swivels therein.

f is the washer on the lower end of the stock *d*, on the under side of the bend of the clevis. The washer *f* is provided with the two slots *g g'*. The stock *d* has also the slot *h*. Through these slots passes the pin *i*. The pin *i* has the head *j*. At the opposite end the pin is split, so as to be capable of being bent around the stock *d*, and thus kept in place. (See Fig. 4.)

With the slots above described the washer is made to turn with the stock *d*. When worn by such action it can be readily replaced.

The advantage of my swivel is this: When vessels are riding at anchor and swinging around the anchor, as they do, the cable becomes twisted, or "kinked," as it is termed. The chain thereby becomes rigid, and the links thereof exercise a lateral or twisting strain upon each other in consequence. This force, additional to the drag of the vessel, renders the cable more apt to break, especially in case of suddenly applied or exerted strain.

My swivel prevents the stiffening or twisting of the cable. As the vessel swings around the central point, where the anchor has its holding, the tendency of the chain to twist revolves the swivel, and so keeps the cable always straight and flexible or limber.

k is the bar that receives the anchor-ring. It is held by the split-headed pin *l*, the prongs of which are bent around the bar, as seen in Fig. 5.

I thus provide a swivel which prevents the twisting of the cable and is securely connected to the anchor.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

The combination of the clevis *a*, of the swivel *b*, with its eye *c* and stock *d*, with the hole *e* in the bend of the clevis, washer *f* in the lower end of the stock *d*, slots *g g'* in the washer *f*, slot *h* in the stock *d*, and the pin *i*, as herein set forth.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

FRANK JOSEPH.

Witnesses:

WILLIAM HENRY CLIFFORD,
JOHN P. KERRIGAN.