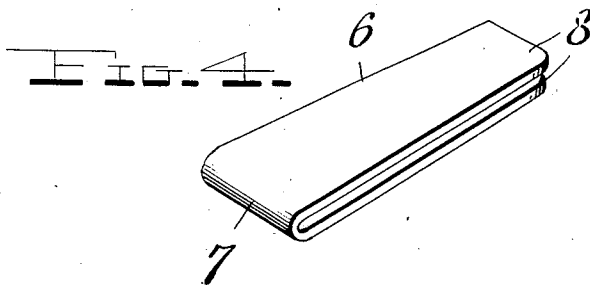
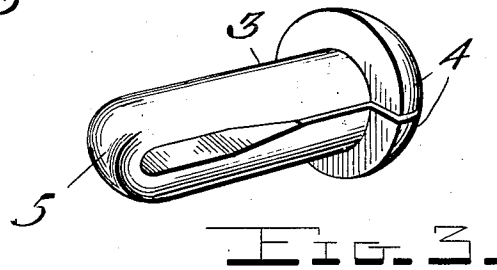
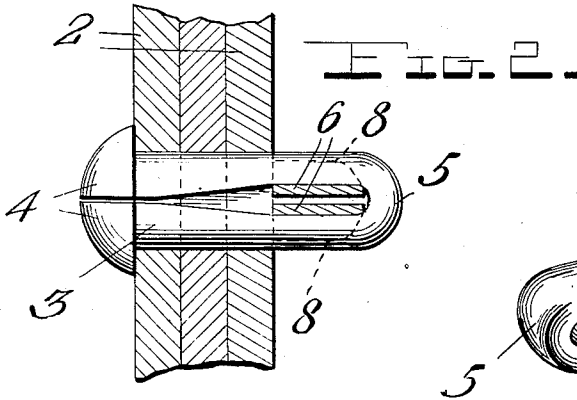
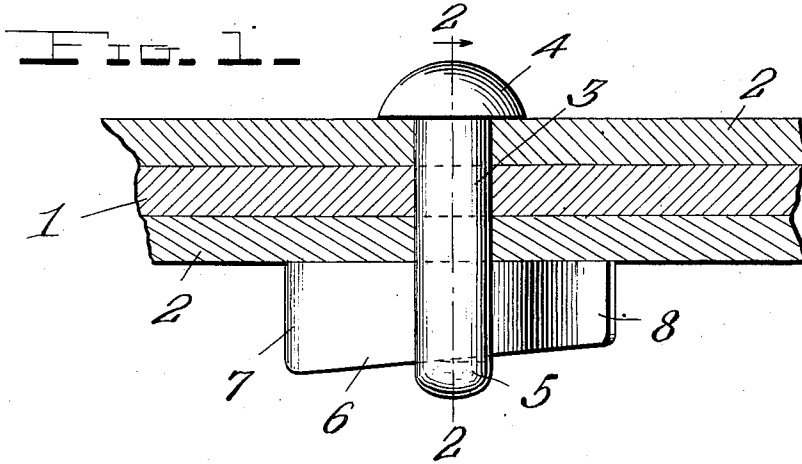


S. A. SMITH.
FASTENING.

APPLICATION FILED AUG. 17, 1909.

948,530.

Patented Feb. 8, 1910.



WITNESSES

Chas. L. Griesbauer.
E. M. Ricketts

INVENTOR

S. A. Smith
By Watson E. Coleman

UNITED STATES PATENT OFFICE.

SAMUEL A. SMITH, OF HARTSHORNE, OKLAHOMA.

FASTENING.

948,530.

Specification of Letters Patent.

Patented Feb. 8, 1910.

Application filed August 17, 1909. Serial No. 513,290.

To all whom it may concern:

Be it known that I, SAMUEL A. SMITH, a citizen of the United States, residing at Hartshorne, in the county of Pittsburg and State of Oklahoma, have invented certain new and useful Improvements in Fastenings, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in fastenings for securing fish plates to the ribs of a track rail and for analogous uses.

The object of the invention is to provide a simple, inexpensive, strong and durable, bolt or fastening of this character which will obviate the necessity of threads and nuts, and which will be so locked that it can not possibly work loose.

With the above and other objects in view, the invention consists of the novel construction, combination and arrangement of parts, hereinafter fully described and claimed, and illustrated in the accompanying drawings in which—

Figures 1 and 2 are views partly in section showing the use of the invention for fastening fish plates to a track rail. Fig. 3 is a perspective view of the bolt or fastening, and Fig. 4 is a perspective view of the wedge shaped locking key.

Referring more particularly to the drawing, 1 denotes a web or track rail, 2 the fish plates, and 3 my improved bolt or fastening which is passed through registering openings in the parts 1, 2. The bolt 3 is formed from a single piece of metal of semicircular shape in cross section which is bent upon itself with its flat faces inwardly and has its ends upset as shown at 4 to provide shouldered enlargements, which together resemble the semispherical head of an ordinary bolt.

The bent end 5 of the bolt is adapted to receive between its slightly spaced inner faces a wedge shaped key 6, which latter is also preferably formed from a single piece or strip of metal bent on itself as shown at 7. The straight edge of the key 6 is adapted to engage the outer face of one of the fish plates, the inclined outer edge of said key engages the inner face of the bent end 5 of the bolt so that when the thick or broad end of the key is struck it will draw the bolt longitudinally and tightly bind the parts 1, 2 together. After the bolt has been thus applied it may be securely locked by bending outwardly or in opposite directions the small ends 8 of the key as shown. Any suitable tool may be provided for rebending the ends 8 into original parallel position when it is desired to remove the key to unfasten the bolt.

While my invention is especially adapted for use in fastening fish plates to a track rail it will be understood that it may be used in other ways and for other purposes.

Having thus described the invention what is claimed is:

A fastening of the character described, comprising a metal piece bent upon itself at its center and having its ends enlarged to provide shouldered head portions, and a wedge shaped key formed from a single piece of metal bent upon itself and inserted in the bent portion of the fastening, the small ends of said key being adapted to be spread apart to lock it in the fastening.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

SAMUEL A. SMITH.

Witnesses:

J. S. YATES,
LULA ZANONE.