(No Model.)

G. W. BAUGHER.

THILL COUPLING.

No. 492,507. Patented Feb. 28, 1893

FIG. 1.

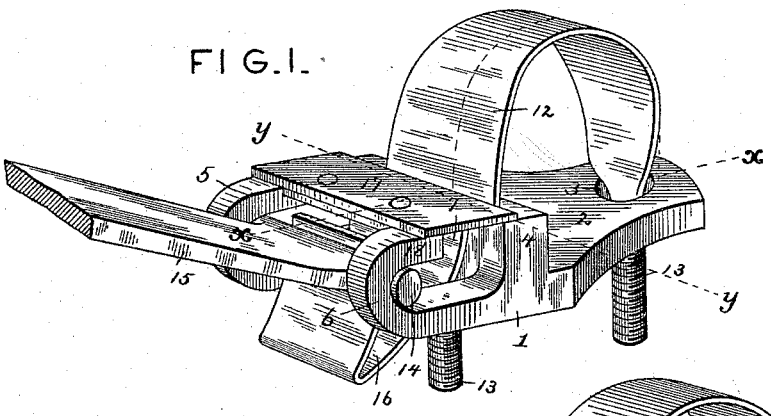


FIG. 2.

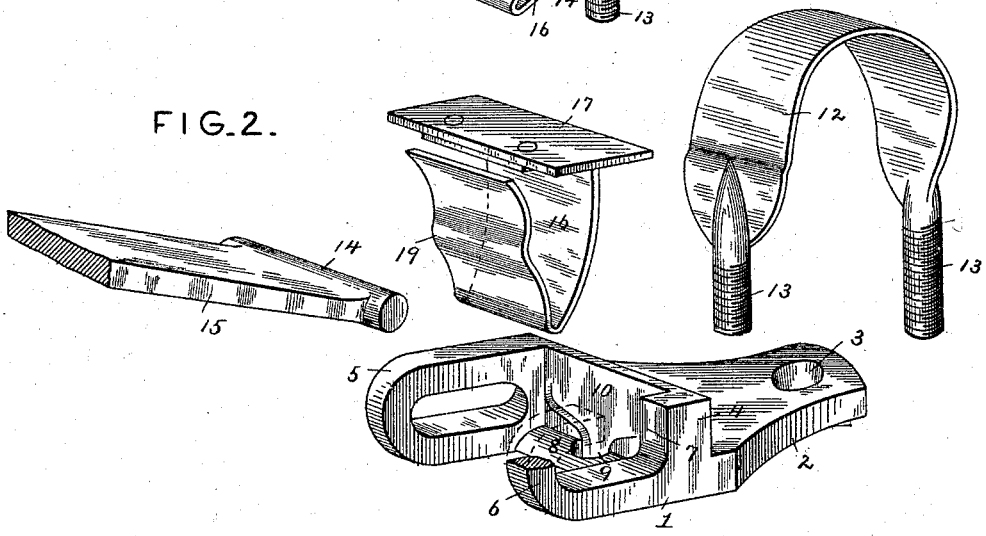


FIG. 3.

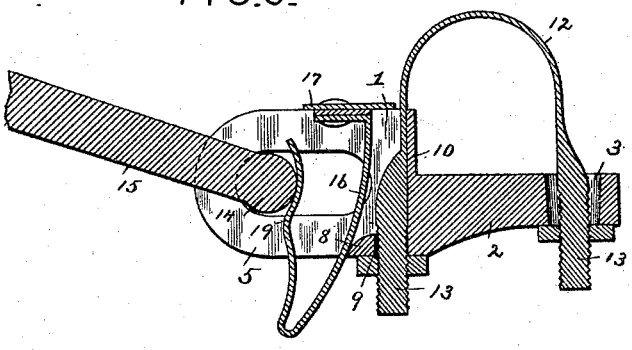
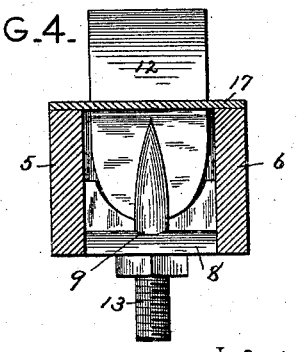


FIG. 4.



Witnesses

Harry L. Amer.

Chas. B. Hyer

Inventor

G. W. Baugher.

By his Attorneys,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE

GEORGE W. BAUGHER, OF MILFORD, INDIANA.

THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 492,507, dated February 28, 1893.

Application filed March 24, 1892. Serial No. 426,282. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. BAUGHER, a citizen of the United States, residing at Milford, in the county of Kosciusko and State of Indiana, have invented a new and useful Thill-Coupling, of which the following is a specification.

This invention relates to certain new and useful improvements in thill-couplings, and it consists in the construction and arrangement of the parts thereof as will be more fully hereinafter described and claimed.

The object of this invention is to simplify the construction and arrangement of the parts of a device of this character and provide means for preventing rattling of the thills when in position in the coupling.

In the drawings, Figure 1 is a perspective view of a thill-coupling embodying the invention and showing the parts in connected position. Fig. 2 is a similar view of the parts detached. Fig. 3 is a longitudinal vertical section on the line *x—x*, Fig. 1. Fig. 4 is a transverse vertical section on the line *y—y*, Fig. 1.

Similar numerals of reference indicate corresponding parts in the several figures of the drawings.

Referring to the drawings, the numeral 1 designates the main attaching plate or iron composing the major construction of the device, and having a rearward extension 2, with an elongated opening 3 extending therethrough, and also formed with a shoulder 4, by the dividing wall between said extensions and the front part of the attaching-plate or iron. Extending forwardly from the said extension are lugs or ears 5 and 6, the lug or ear 5 being formed with an elongated closed slot, and the lug or ear 6 having a rear throat or opening 7. Between the said lugs or ears, in the rear and at the base thereof, is formed a transversely-extending web 8, having an opening 9 therethrough and at right angles to the aforesaid dividing-wall. The surface of said web is somewhat below the lower wall of the slots or openings in the aforesaid ears to thereby form a seat. The said dividing-wall 10 heretofore set forth, is provided with a recess 11 to receive a portion of a clip 12, whose legs 13, are inserted through the openings 3 and 9 to receive nuts and thereby secure this part of the coupling in fixed postion.

The T-head 14 of the shaft-iron 15, is inserted in the openings of the lugs or ears 5 and 6, and between the same, the adjacent portion of the clip, and the web 8, is inserted a double spring 16, which is approximately of V-shape and provided with a transversely-extending horizontally-disposed head-plate 17, adapted to bear on the top portions of the lugs or ears 5 and 6, and also close the throat 7 of the said ear 6. The slots in the lugs 5 and 6 are elongated to permit a sliding yielding motion of the T-head when mounted therein against the spring as set forth, and also in attaching said T-head to the ears it is inserted in the back portions of the same through the throat 7, and drawn forward in said ears under an overhanging shoulder 18 adjacent to said throat 7 and thereby held firmly in connected position. The double spring 16 is curved downward and forward from the plate 17, and then upward more nearly in a vertical plane, said latter portion thereof being formed corrugated or fluted as at 19 to provide a bearing for the rear portion of the T-head 14 when resting thereagainst. This construction provides for the retention of the said spring and its head-plate in proper position, as it will be prevented from rising from its seat by the said T-head bearing on the fluted portion 19 and thereby acting as a shoulder, as will be readily understood. This spring 16 and its head 17 form an anti-rattling attachment as will be seen, and the said plate 17, when in position as shown in Fig. 1, will hold the clip in the recess 11 and prevent disconnection of said clip in the event of loosening of the nuts thereof.

The simplicity of construction of the device hereinbefore set forth provides for a ready connection of the several parts without the necessity of the manipulation of complex and intricate parts; and it will be understood that many minor changes in the construction and arrangement of the parts might be made and substituted for those shown and described without in the least departing from the nature and spirit of the invention.

Through the medium of the elongated hole 3 and the adjustable connection of the clip

with the coupling, the said clip may be readily arranged for application to axles of varying heights and widths, which provides a very convenient adjustment to accommodate various sizes and shapes of axles.

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

In a thill-coupling, the combination of the main attaching plate or iron having a rearward flat extension or tie-plate 2 with a rear elongated opening 3 therein and forwardly-projecting lugs or ears, a vertical transversely disposed web between the lugs or ears and extending above the extension or tie-plate and having a projection at the base thereof, the same being perforated and enlarged at opposite sides to form a seat, a shaft-iron engaging said lugs or ears, a spring located between the lugs and bearing on the head of the iron, and a yielding adjustable clip having a front and a rear leg, the rear leg normally depending below the front leg and loosely extending through the elongated opening 3 of the aforesaid extension to compensate for vertical adjustment, and the front leg extending through the perforation in the projection located at the base of the web and having the front portion of the clip body entering said seat and bearing on the same, substantially as described.

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

GEORGE W. BAUGHER.

Witnesses:
ELMER HOLLOWAY,
CHAS. BETZ.