(No Model.)

A. McKAY.

SADDLE TREE.

No. 403,129. Patented May 14, 1889.

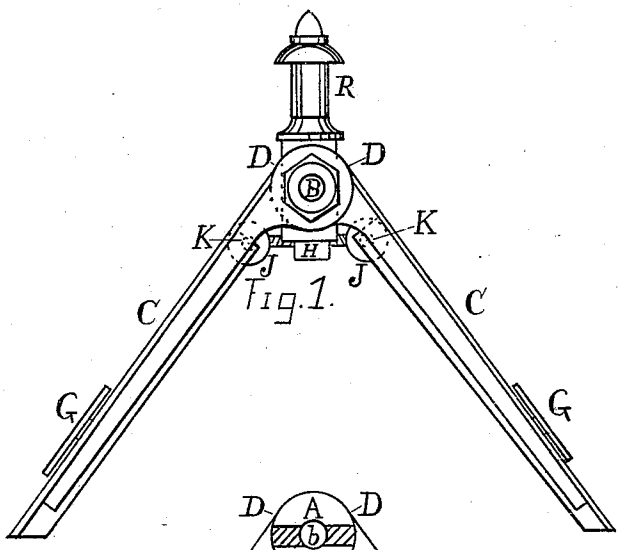


Fig. 1.

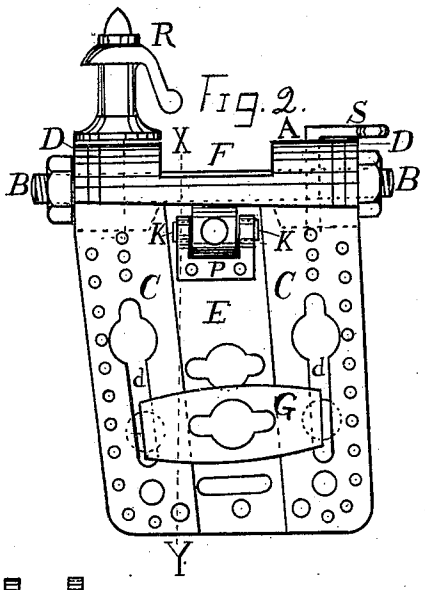


Fig. 2.

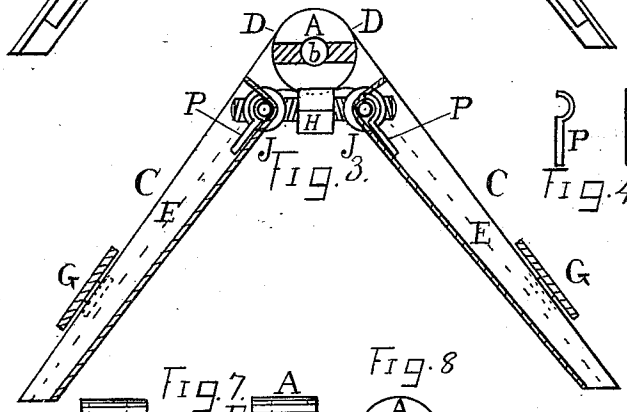


Fig. 3.

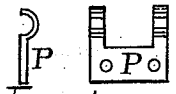


Fig. 4.



Fig. 5.

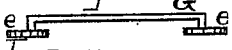


Fig. 6.

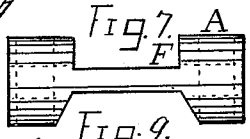


Fig. 7.

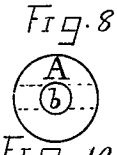


Fig. 8.

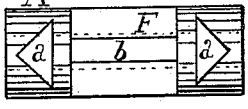


Fig. 9.

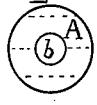


Fig. 10.

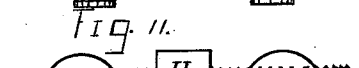


Fig. 11.

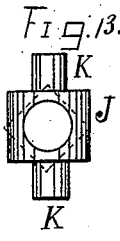


Fig. 13.

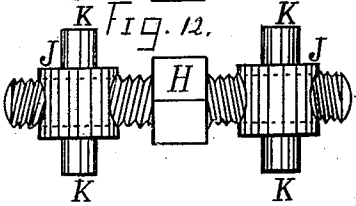


Fig. 12.

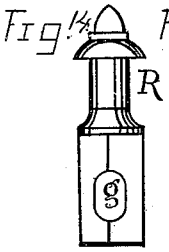


Fig. 14.

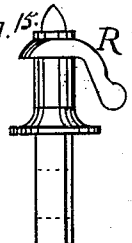


Fig. 15.

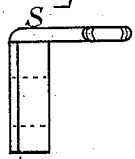


Fig. 16.

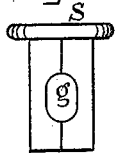


Fig. 17.

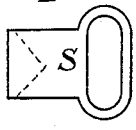


Fig. 18.

WITNESSES.

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INVENTOR.

Andrew McKay.

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N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

ANDREW McKAY, OF PHILADELPHIA, PENNSYLVANIA.

SADDLE-TREE.

SPECIFICATION forming part of Letters Patent No. 403,129, dated May 14, 1889.

Application filed December 31, 1888. Serial No. 295,080. (No model.)

To all whom it may concern:

Be it known that I, ANDREW McKAY, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Saddle-Trees, of which the following is a specification.

My improvement relates to saddle-trees, or the frame upon which a harness or riding saddle is built.

The object of my improvement is the construction of a frame or tree that may be adjusted so as to fit the size and shape of the backs of different horses and mules; also, to arrangements for connecting the "back-band" to the saddle-tree and permitting the back-band to freely slide over the top when the horse or mule is in motion.

My invention consists, first, in constructing the saddle-tree with a joint at the top and connecting the two sides by a right and left hand regulating-screw; second, constructing the sides with slots and cross-bars, so as to connect the back-band to the frame or tree in such a manner as will permit the back-band to freely slide over the top of the frame when the horse or mule is in motion.

My improved saddle-tree is constructed as shown in the accompanying drawings, in which—

Figure 1 is a front view of a saddle-tree constructed according to my improvements. Fig. 2 is a side view. Fig. 3 is a vertical section taken on the line X Y of Fig. 2. Fig. 4 is an edge and side view of one of the nut-caps. Figs. 5 and 6 are side and edge views of the cross-bars. Figs. 7, 8, 9, and 10 are views of the joint-block. Figs. 11, 12, and 13 are views of the regulating screws and nuts. Figs. 14 and 15 are views of the "post." Figs. 16, 17, and 18 are views of the "crupper-loop."

Similar letters refer to similar parts throughout the several views.

The parts I prefer to be all made of a non-corrosive metal, or the parts may be galvanized. The block A is cast in the shape shown in Figs. 7, 8, 9, and 10, and having triangle-shaped slots *a* at each end. The hole *b* may be cast in, or it may be drilled.

B is a bolt having a six-sided nut on each end.

C is the shell forming the sides, and is cast to the joints D. This shell is cast with slots *d d* and a recess, E, for the back-band, which recess is in line with the notch F in the joint-block A.

G is a cross-bar having at each end a button-head, *e*.

H is a regulating-screw. On one end is cut a right-hand screw-thread; on the other a left-hand thread.

J are nuts, which nuts are each provided with pivot-pins K.

P is a cap which is fitted for the pins K on the nuts J. The cap P is fastened to the shell C by rivets, as shown in Fig. 2.

The shell C has cast or drilled in it a series of small holes. (See Fig. 2.) These holes are for rivets that are used to rivet the leather and other coverings to the frame or tree.

R is the post. The lower part is made triangle shape and to fit the hole *a* in joint-block A. The lower part of the post R is provided with a slotted hole, *g*, for the joint-bolt B.

S is the crupper-loop. The lower part of this loop is made triangle shape and to fit the hole *a* in block A, and the lower part is provided with a slotted hole, *g*, for the joint-bolt B.

My improved saddle-tree is put together and made ready for use in the following manner: The block A is placed between the joints D D. The post R and crupper-loop S are inserted in the openings *a a*. The bolt B is passed through the holes in joint D, loop S, block A, post R, and joint D, when the nuts are put on the bolt B. The regulating-screw is then put in place, as shown in Fig. 3, when the caps P are riveted to the shell C. The bars G are by the button-heads *e e* connected to the shell C. The shanks of the button-heads are free to slide up and down in the slots *d d*. The leather and other coverings are put on the frame, when the back-band is slipped under the bar G and over the block A in the notch F and under the bar G on the other side.

When the saddle is to be fitted to the horse's or mule's back, the screw H is turned to open or close the sides until the padding on the inside of the frame fits the back, when the nuts on the bolt B are screwed tight and hold the saddle to a fit.

When the saddle is placed on a horse's back

and the back-band is connected to the shafts, the motion of the horse will cause the back-band to have a sliding motion over the top in the notch F, and the band, being under the bars G, will be confined to the recess E. The button-heads *e e* keep the bars to the shell C. The shanks of the button-heads slide in the slots *d d*.

Having above described my invention and the manner of constructing and using the same, what I claim as my invention is—

1. A saddle-tree consisting of the block A, cut away centrally at the top and bottom and provided at each end with the vertical triangular holes and a longitudinal bore, the check-hook and crupper-loop having the triangular posts adapted to fit in the triangular openings in the block, the sides C C, provided with bearings D D, and rod B, having a nut at each end and adapted to hold the several parts together, substantially as set forth.

2. A saddle-tree consisting of the block A, check-hook R, crupper-loop S, and sides C C, secured together substantially as set forth, said sides having the slots *d d*, in which the button-heads of the cross-bars G are fitted, said cross-bars and the right and left adjusting-screw fitted in pivoted nut-bearings in the sides C C, said bearings secured in the sides by the caps P, substantially as set forth.

ANDREW McKAY.

Witnesses:
JOHN SHINN,
SAMUEL P. COURTNEY.