

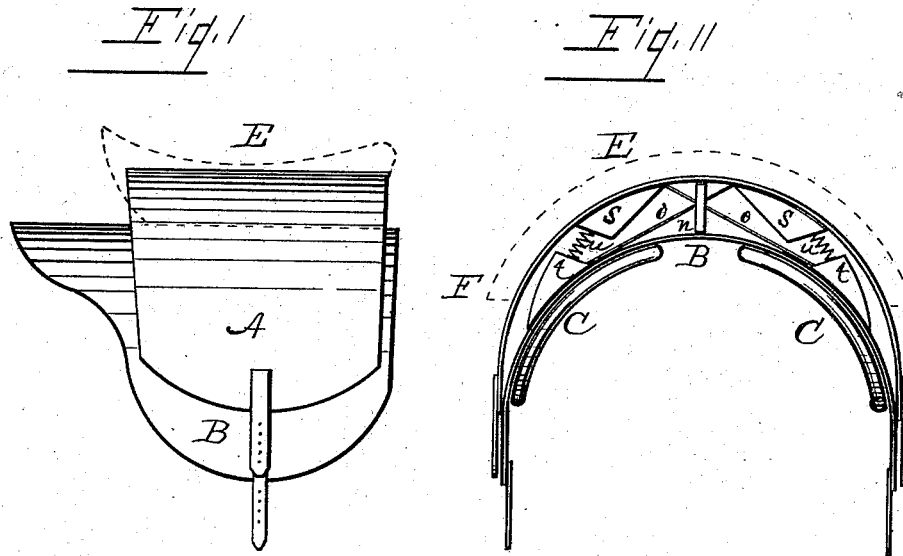
(No Model.)

D. UNVERFERTH.

SADDLE.

No. 382,446.

Patented May 8, 1888.



Witnesses.
W. C. Kette.
A. H. Houp.

Inventor.
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UNITED STATES PATENT OFFICE.

DAVID UNVERFERTH, OF DAYTON, OHIO.

SADDLE.

SPECIFICATION forming part of Letters Patent No. 382,446, dated May 8, 1888.

Application filed January 25, 1888. Serial No. 261,838. (No model.)

To all whom it may concern:

Be it known that I, DAVID UNVERFERTH, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Elastic Horse-Saddles; 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 the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in elastic horse-saddles; and it consists of blocks of wood arranged longitudinally on both sides of the center between an upper plate of metal and the padded leather part, to which parts said blocks are securely attached; and said blocks are held apart by a series of spiral springs held in the said blocks at an inclination from the perpendicular, and the two parts are held in position by transverse leather straps.

My object is the construction of an elastic saddle, either for riding or for harness, which shall relieve the jar consequent on the movement of the horse or that of the vehicle, as in case of drays and carts.

The mechanism is illustrated in the accompanying drawings, in which—

Figure I is a side view of the elastic saddle. Fig. II is a front view of the same.

Like letters designate like parts throughout both views.

E is a thin metallic plate, to which the blocks *s s* are securely riveted or otherwise secured. These blocks are nearly the length of the top plate and the backs are curved convexedly, the inner surfaces are concave, the facing-surfaces are parallel, the pairs are arranged obliquely to each other, and between which

is a series of spiral springs which hold them apart. To the lower edges are attached the straps which engage the buckles on the shaft-loops or an inner belly-band when the device is adapted and used as a riding-saddle. To this top plate may be attached the usual form of saddle seat, as shown by dotted lines at Fig. I, or the block for the back chain for a dray-harness, as shown by dotted lines at Fig. II. To the leather part B is securely attached the blocks *t t*, and to the under surface are attached the pads C C, and straps are attached to engage the belly-band the same as is usual. The series of spiral springs *u u* on both sides are held in round recesses in the said blocks, or otherwise secured in position; and these serve to keep the blocks apart and yield under pressure, thereby giving an elastic movement that will relieve the horse, or, in case of being ridden, the rider, from a violent jar. The diagonal straps *o o*, attached to the blocks, and the vertical strap *n* preserve the relation of the parts and arrest the expansion beyond their point of tension.

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

The elastic horse-saddle comprising the parts A and B, the longitudinal blocks *s s*, attached to the former, and the blocks *t t*, attached to the latter, with a series of intervening spiral springs, *u*, and means to retain these parts in a proper relation, substantially as set forth.

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

DAVID UNVERFERTH.

Witnesses:

B. PICKERING,
SUMNER T. SMITH.