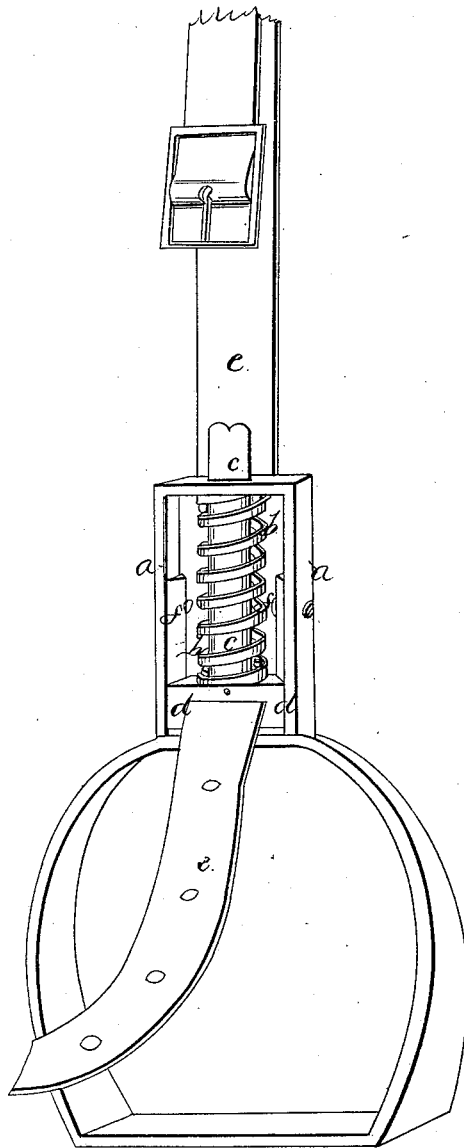


J. Carrel,
Riding Saddle,
N^o 1,165. Patented June 7, 1839.



UNITED STATES PATENT OFFICE.

JOHN CARREL, OF PETERSBURG, VIRGINIA.

STIRRUP FOR SADDLES.

Specification of Letters Patent No. 1,165, dated June 7, 1839.

To all whom it may concern:

Be it known that I, JOHN CARREL, of Petersburg, in the county of Dinwiddie and State of Virginia, have invented an Improvement in the Mode of Making Stirrups, which I denominate the "Elastic Spring Stirrup;" and I do hereby declare that the following is a full and exact description thereof.

10 On the top of the stirrup I make a frame *a a*, as shown in the drawing, and within this I place a coiled spring *b b*, surrounding a flat plate *c c*, which slides through a slot in the top of the frame, and is below attached

15 by a pin to the slide *d d*, through which there is a mortise to admit the stirrup strap *e e*. The spring *b b*, bears at its upper end against the top of the frame, and at its lower against the slide *d d*. To prevent the

20 too great play of the slide, and the consequent injury to the spring, check pins are inserted through the frame as shown at *f f*;

there are also check pins shown at *g, g*, which are intended to keep the spring in place, which, however, may be effected in 25 other ways. The slide *d, d*, is to be guided by grooves, or otherwise to prevent lateral motion.

What I claim as my invention and desire to secure by Letters Patent is— 30

The employment of a spring acting in a suitable frame at the top of the stirrup, said spring, with its appurtenances, being constructed, combined, and operating, substantially in the manner herein set forth; its object and use being to relieve the sides from 35 the effects of those sudden jerks which are frequently experienced when riding with stirrups of the ordinary construction.

JOHN CARREL.

Witnesses:

C. H. WITSBERGER,
LINTON THORN.