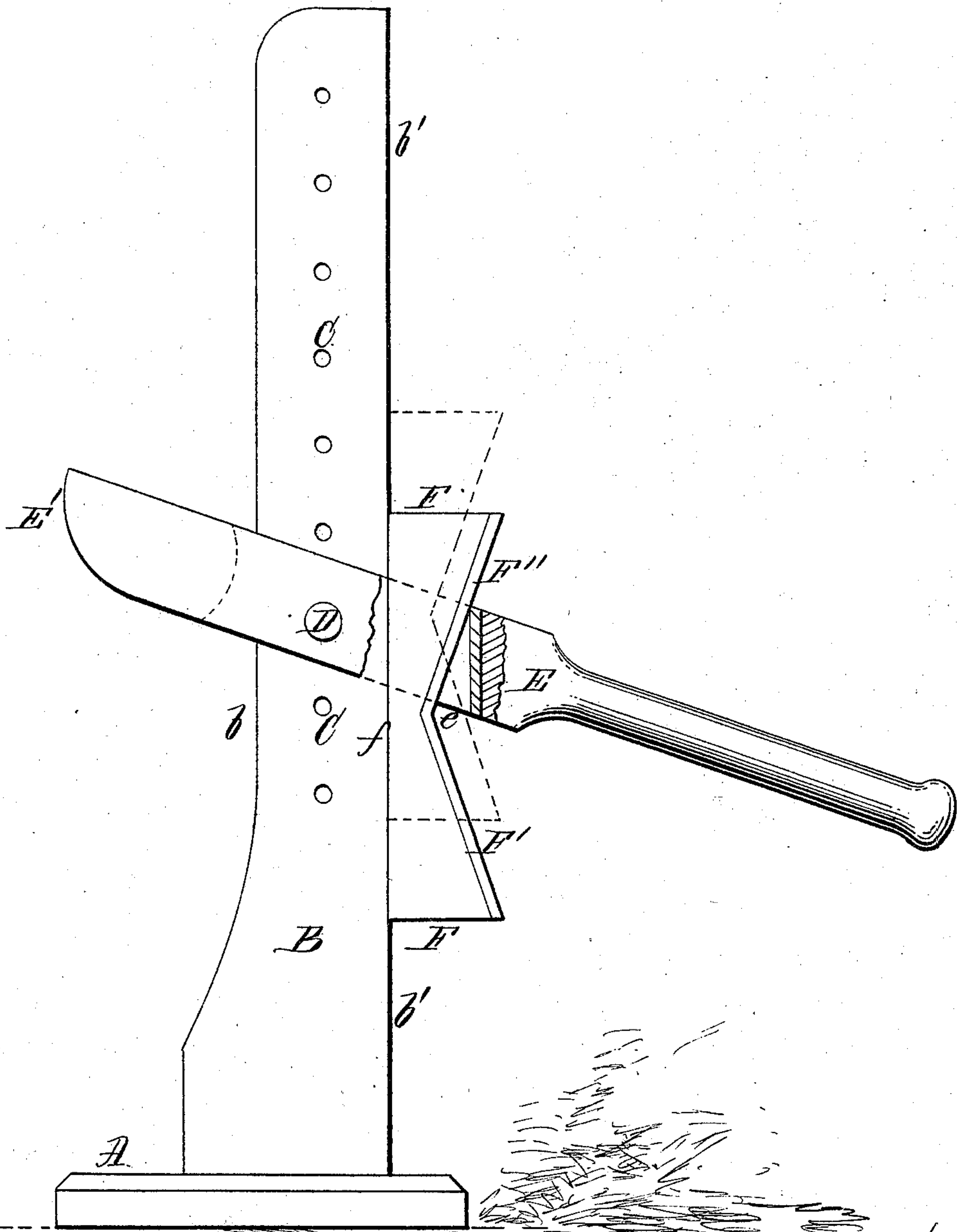


*M. Andriot,*

*Lifting Jack.*

*N<sup>o</sup> 58,198.*

*Patented Sep. 25, 1866.*



*Witnesses,  
James H. Layman  
H. G. Weber.*

*Inventor,  
M. Andriot  
By Knight & Sons*

# UNITED STATES PATENT OFFICE.

MAURICE ANDRIOT, OF MOUNT WASHINGTON, OHIO.

## IMPROVEMENT IN CARRIAGE-JACKS.

Specification forming part of Letters Patent No. 58,198, dated September 25, 1866.

*To all whom it may concern:*

Be it known that I, MAURICE ANDRIOT, of Mount Washington, Hamilton county, Ohio, have invented a new and useful Carriage-Jack; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, making part of this specification.

This invention is especially intended as an improvement on the carriage-jack for which a patent was granted to me on the 24th day of July, 1866.

The invention consists in an improved construction of key, which is adapted to operate with better effect and greater promptness, as will be hereinafter explained.

The accompanying drawing is a side elevation of my jack, a portion of the lever being removed.

From a base or foot, A, there rises vertically a post, B, whose edge *b*, farthest from the operator, is plumb, or nearly plumb, with the center of the foot, the front edge, *b'*, being parallel with said edge *b*. C are perforations through the post B to receive a pin, D, which constitutes the fulcrum of a lever, E, whose slot *e*, while fitting the post laterally, is of sufficient length from front to rear to contain a key, F, having a perfectly straight back, *f*, to bind against the front edge, *b'*, of the post, and whose front edge has the form of an obtuse re-entrant angle, *f'*, so as to present two wedge-like or oblique faces, F' F''. The oblique faces F' F'' of the key and the corresponding end of the slot *e* may be lined with iron.

The relative dimensions of the ends of the key F and the length of the slot *e* are such as to enable the key to be easily inserted or reversed, or to be replaced by another one when

the lever is detached, but such as to prevent the escape of the key when the lever is in place on the post.

The operation is as follows: The lever having been adjusted to the desired height upon the post and the pin inserted, the key is lifted with the left hand (see red lines) and the lever elevated so as to enable the counter-arm E' of the lever to be introduced under the axle. The key is then released, and the lever being depressed, the axle is lifted off of the ground. The lever, being now released, is carried backward a short distance until its edge *e'* bears against the oblique face of the key, when the straight back of the latter is pressed so firmly against the edge of the post as to be held immovably by friction, while the further ascent of the lever is prevented by the increasing width upward of the key.

It is found that a perfectly straight-backed key drops into lock more promptly and securely, and with less loss of power, space, and backlash, than one of a curved form.

The key may be controlled by a trigger worked by the same hand which operates the lever.

One end having become deteriorated by use, the key may be inverted and will be as good as new.

I claim herein as new and of my invention—

The key F, formed with a straight back, *f*, and two oblique faces, F' F'', converging together at *e*, as and for the purposes specified.

In testimony of which invention I hereunto set my hand.

MAURICE ANDRIOT.

Witnesses:

GEO. H. KNIGHT,  
JAMES H. LAYMAN.