

E. E. BANNING.
Lifting-Jacks.

No. 158,353.

Patented Jan. 5, 1875.

FIG. II.

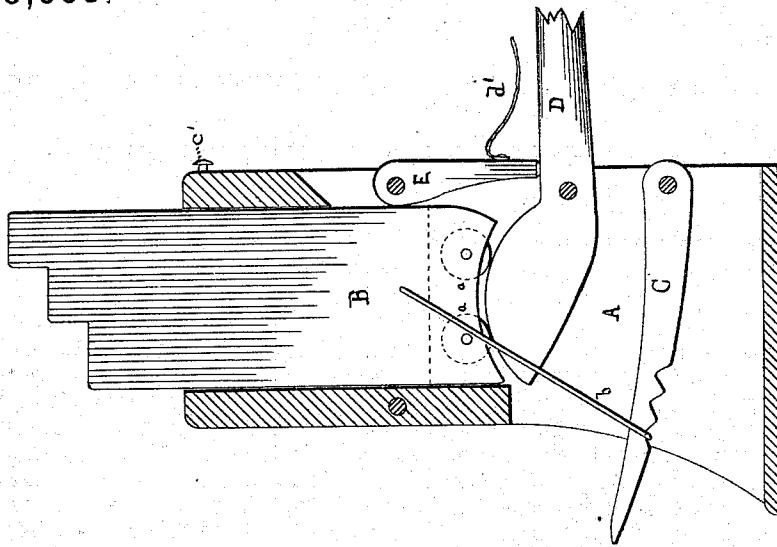
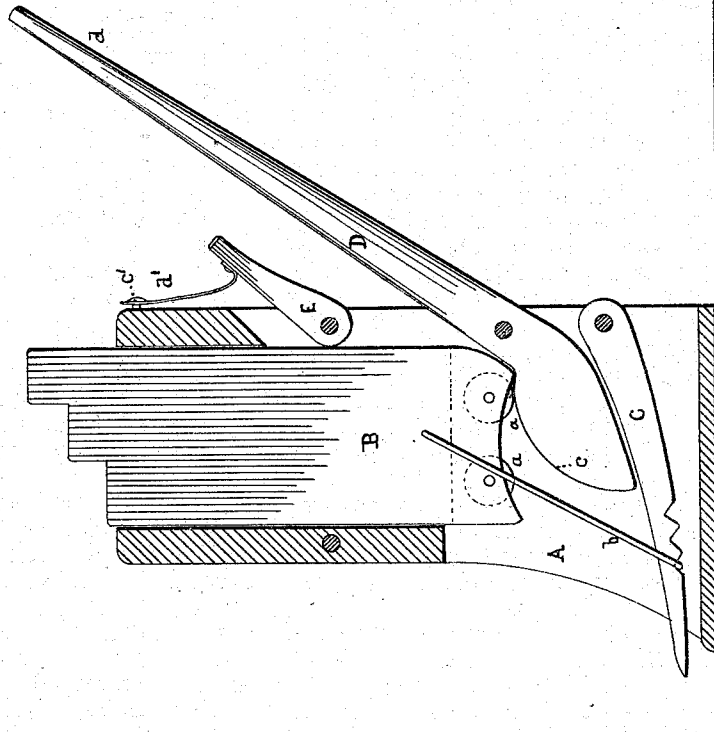


FIG. I.



WITNESSES:

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James L. Norris.

UNITED STATES PATENT OFFICE.

ELMORE E. BANNING, OF ROCHESTER DEPOT, OHIO.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. **158,353**, dated January 5, 1875; application filed June 29, 1874.

To all whom it may concern:

Be it known that I, **ELMORE E. BANNING**, of Rochester Depot, in the county of Lorain and State of Ohio, have invented certain new and useful Improvements in Wagon-Jacks, &c., of which the following is a specification:

This invention has for its object to furnish a combined lifting-jack, railroad-rail, and fence-lifter, which possesses much simplicity of construction, and is very convenient in operation.

The invention consists of a frame in which is arranged a lifting-bar, connecting by means of rods or arms with a pivoted lifting lever-arm, said bar and lever arm being operated upon by a lever having a cam-shaped head in such a manner that, by depressing said lever, the lifting-bar and lever-arm are raised simultaneously for raising an object, and when the long end of the lever is raised, the lifting-bar and lever-arm are lowered. The lifting-bar and lifting-lever are secured in an elevated position by means of a pivoted pawl, which drops and presses against the lever for retaining the same in a depressed position, all of which will be more fully hereinafter described.

In the accompanying drawing, Figure 1 is a vertical sectional elevation of my improved lifting-jack, showing the lifting-bar depressed, and Fig. 2 is a vertical section, showing the lifting-bar raised.

In the drawings, **A A** represent the sides of the frame, between which is arranged the sliding lifting-bar **B**, which is employed for raising the axle of a vehicle. The upper end of the said bar is of the usual stepped construction, and its lower portion is curved and provided with rollers *a*, journaled in recesses in the same. The lifting-bar is connected by means of rods or arms *b*, pivoted thereto with a lever-arm, **C**, pivoted at one end between the frame **A A**, and having notches or serrations on its under edge, with which the arms *b* engage. The free end of the lever-arm **C** projects beyond the frame **A A**, and can be placed beneath a railroad-rail or a fence for raising the same, as hereinafter mentioned.

Between the frame **A A** is journaled a lever, **D**, having a cam-shaped surface or short arm, *c*, and by depressing the long end, *d*, of the lever **D**, so that the cam-shaped surface comes in contact with the rollers *a*, the lifting-bar **B** is raised, which latter, through the arms *b*, also raises the lever-arm **C**, and thus lifts or raises the axle of a vehicle, or a railroad-rail, or fence, as the case may be.

In order to retain the lifting-bar and lever-arm in an elevated position for supporting an object, I pivot or journal between the frame **A A** a pawl or arm, **E**, which, when allowed to drop, presses against the edge of the long arm of the lever **D**, and retains the same in a depressed position, holding up the bar **B** and arm **C**, and the said pawl is provided with a looped strap, *d'*, for engagement with a button, *e'*, on the frame **A**.

The lower edge of the lever-arm **C** is notched or serrated, as before stated, for adjusting the arms *b* to any of said notches, and regulating the height of the lever-arm, with respect to the ground, for operating upon higher or lower objects, and at the same time obtaining greater or less leverage, as the same may be required.

The lifting-bar **B** is employed for raising the axles of vehicles, in order to remove the wheels for oiling, or other purposes; and the lever-arm **C** is used for prying or forcing up railroad-rails, or raising fences, or for placing foundation-stones beneath the same, and for other similar purposes where the lifting-bar cannot be employed.

I claim as my invention—

The combination of sliding lifting-bar **B** and pivoted lifting lever-arm **C**, connected together by arms *b*, with the lever **D** journaled in the frame **A**, substantially as described, and for the object specified.

In testimony that I claim the foregoing I have hereunto set my hand.

ELMORE E. BANNING.

Witnesses:

WM. BENNETT,
J. SWITZER.