No. 735,703. PATENTED AUG. 11, 1903.

J. J. BUCKLEY.

TRACK RAISING IMPLEMENT.

APPLICATION FILED MAR. 7, 1903.

NO MODEL.

Fig. 1.

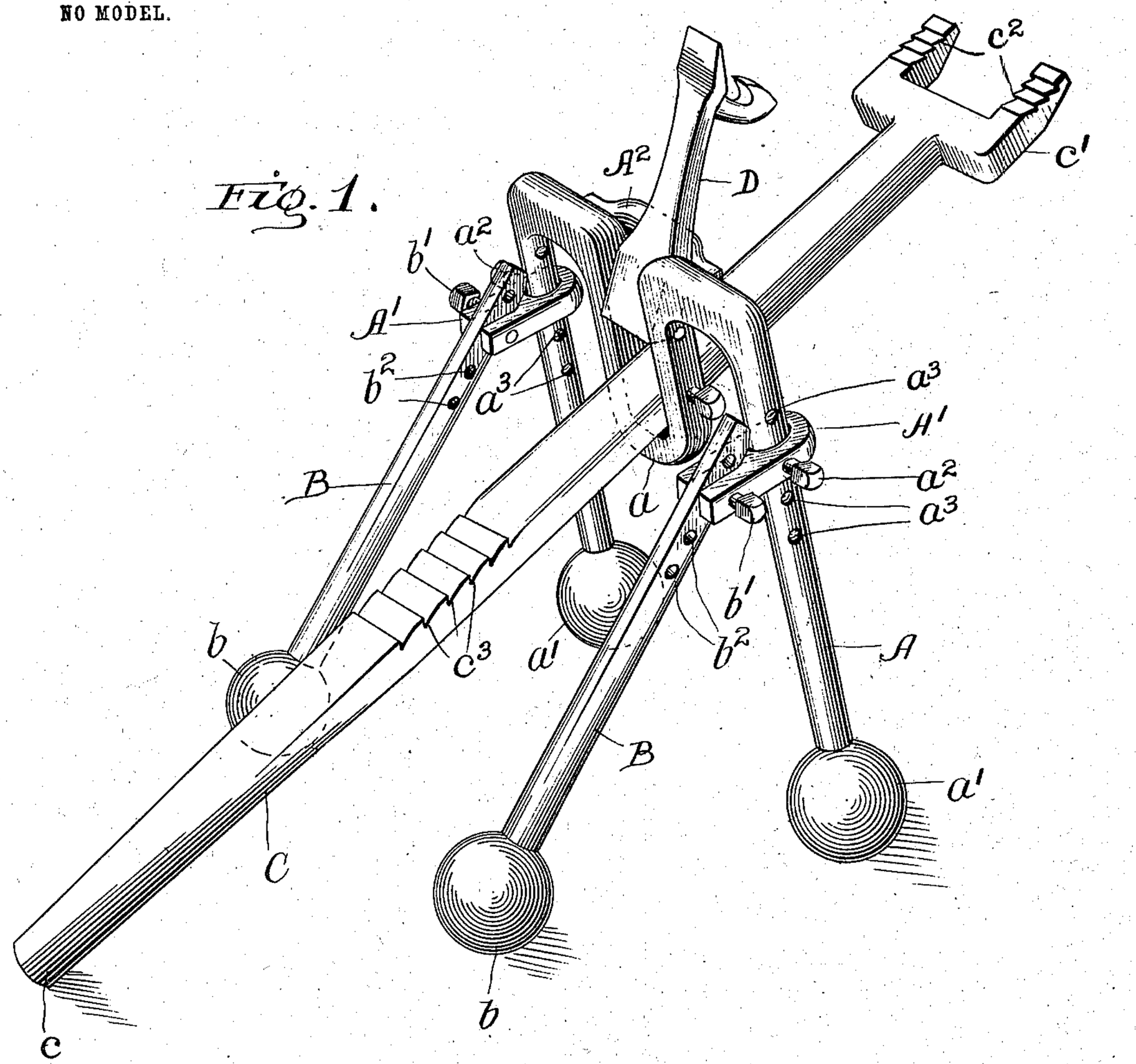
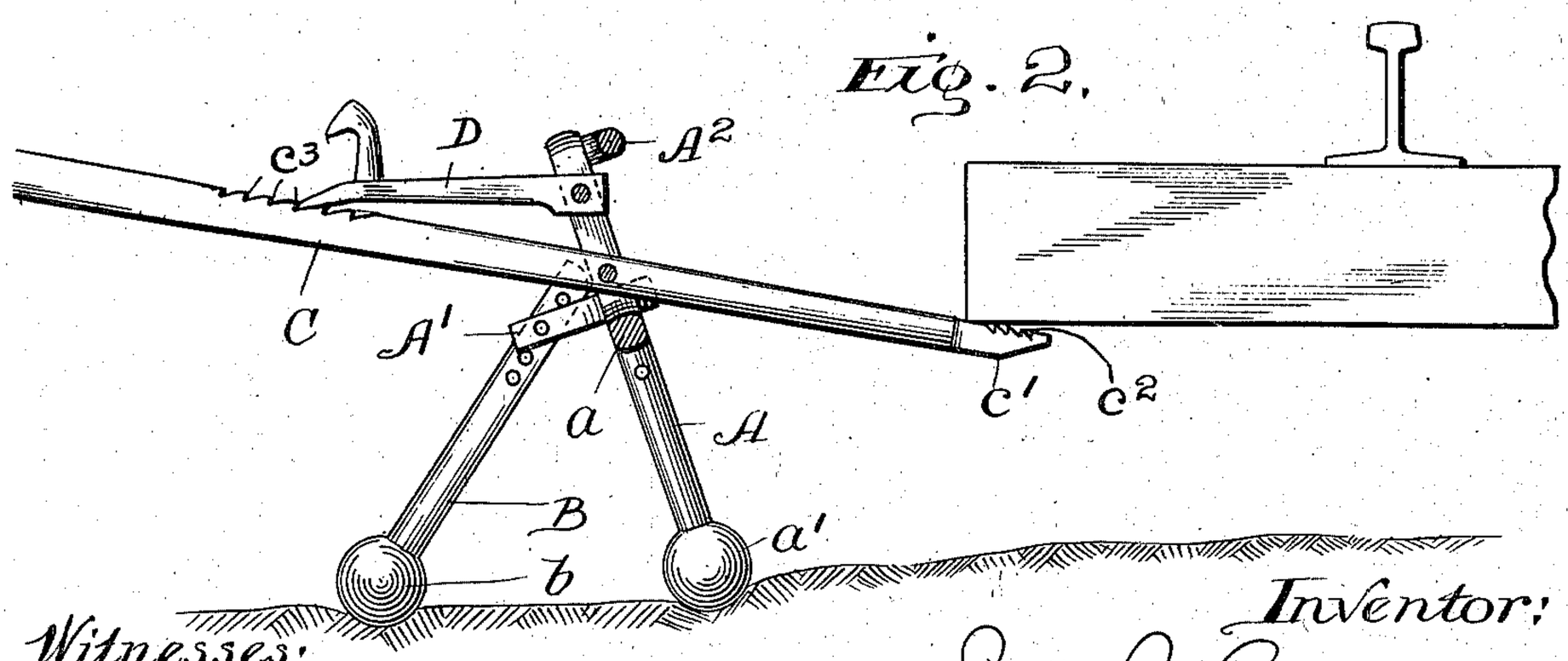


Fig. 2.



Witnesses:
Chas. O. Sherrey
S. Bliss.

Inventor:
John J. Buckley
by A. P. Bitner
Atty.

No. 735,703. Patented August 11, 1903.

UNITED STATES PATENT OFFICE.

JOHN J. BUCKLEY, OF DWIGHT, ILLINOIS.

TRACK-RAISING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 735,703, dated August 11, 1903.

Application filed March 7, 1903. Serial No. 146,618. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. BUCKLEY, a citizen of the United States of America, residing at Dwight, in the county of Livingston and State of Illinois, have invented certain new and useful Improvements in Track-Raising Implements, of which the following is a specification.

My invention relates to certain new and useful improvements in track-raising implements; and its object is to produce a device for use in railroad construction and repairing which will be suitable for lifting ties, together with the attached rails, from the road-bed.

To this and certain minor ends, which will become apparent in the course of the description, my invention consists in certain novel features of construction, which are herein set forth, and clearly illustrated in the drawings appended hereto.

In the aforesaid drawings, Figure 1 is a perspective of my improved track-raising implement, and Fig. 2 is a central longitudinal section thereof.

Referring to the drawings, A is the main supporting-frame of the device. It is formed in the shape of a large inverted U with a small central downwardly-extending yoke a. The ends of the frame A terminate in balls a' or in other enlarged portions so shaped as to take a firmer hold on the loose material of which the ordinary road-bed is constructed. Collars A′ are passed over the ends of the frame A and are movable thereon, said collars being adapted to be secured in a plurality of positions by the engagement of bolts a^2 with holes a^3 in the sides of the frame A. In the collars A′ are pivoted legs B, terminating in balls b, similar to the balls a'. These legs B are adjustable in the collars by the engagement of bolts b' with holes b^2 in the legs.

In the lower part of the yoke a of the frame A is pivoted a lever C, provided at one end with a suitable handle c and at the other end with a fork c', the upper surface of said fork being provided with a plurality of teeth c^2, suitable for frictional engagement with the wood of the ties. In the upper part of the yoke a is pivoted a pawl D, adapted to engage with teeth c^3, forming a ratchet on the upper surface of the lever C. The pawl D can swing toward the handle of the lever C until it comes in contact therewith; but its rotation upon its pivot in the opposite direction is limited by a bar A^2, secured to the frame A.

The operation of the device will now be readily apparent. The collars A′ and the legs B are so adjusted that the frame A will be given a large base and be positioned to withstand considerable vertical strain. The exact adjustment will of course vary somewhat with the level of the surface upon which it is to be placed, the adjustment shown in the drawings being that for level ground. The fork c' of the lever C is crowded under the end of the tie which it is desired to lift and the frame and legs pushed into position. The handle of the lever is then pushed down, the tie being consequently raised. The pawl D engages with the teeth c^3 of the lever C as the handle of the lever is lowered and locks the handle in any desired position. This is particularly advantageous, as it is frequently desirable to raise a tie three or four inches and hold it in place long enough to fill in underneath. With the ordinary devices it is of course necessary to have one laborer raise the tie and hold it while another fills in under it, while with my device one laborer can raise the tie and then fill in under it himself.

I realize that considerable variations are possible in the details of this construction without departing from the spirit of the invention, and I therefore do not intend to limit myself to the specific form herein shown and described, except as pointed out in the claims.

I claim as new and desire to secure by Letters Patent—

1. The combination with an inverted-U-shaped frame provided with a yoke, legs pivoted to said frame, and a lever pivoted in the yoke.

2. The combination with the inverted-U-shaped frame, A, provided with the yoke, a, of the legs, B, pivoted thereto, and the lever, C, provided with the serrated end pivoted in the yoke, a.

3. The combination with the U-shaped frame, A, provided with the yoke, *a*, of the collars, A′, adjustably secured upon said frame, the bracing-legs, B, secured in said collars, and a lever pivoted in the yoke, substantially as described.

In witness whereof I have signed the above application for Letters Patent at Dwight, in the county of Livingston and State of Illinois, this 28th day of February, A. D. 1903.

JOHN J. BUCKLEY.

Witnesses:

WM. H. KETCHAM,

GEO. T. PETTELL.