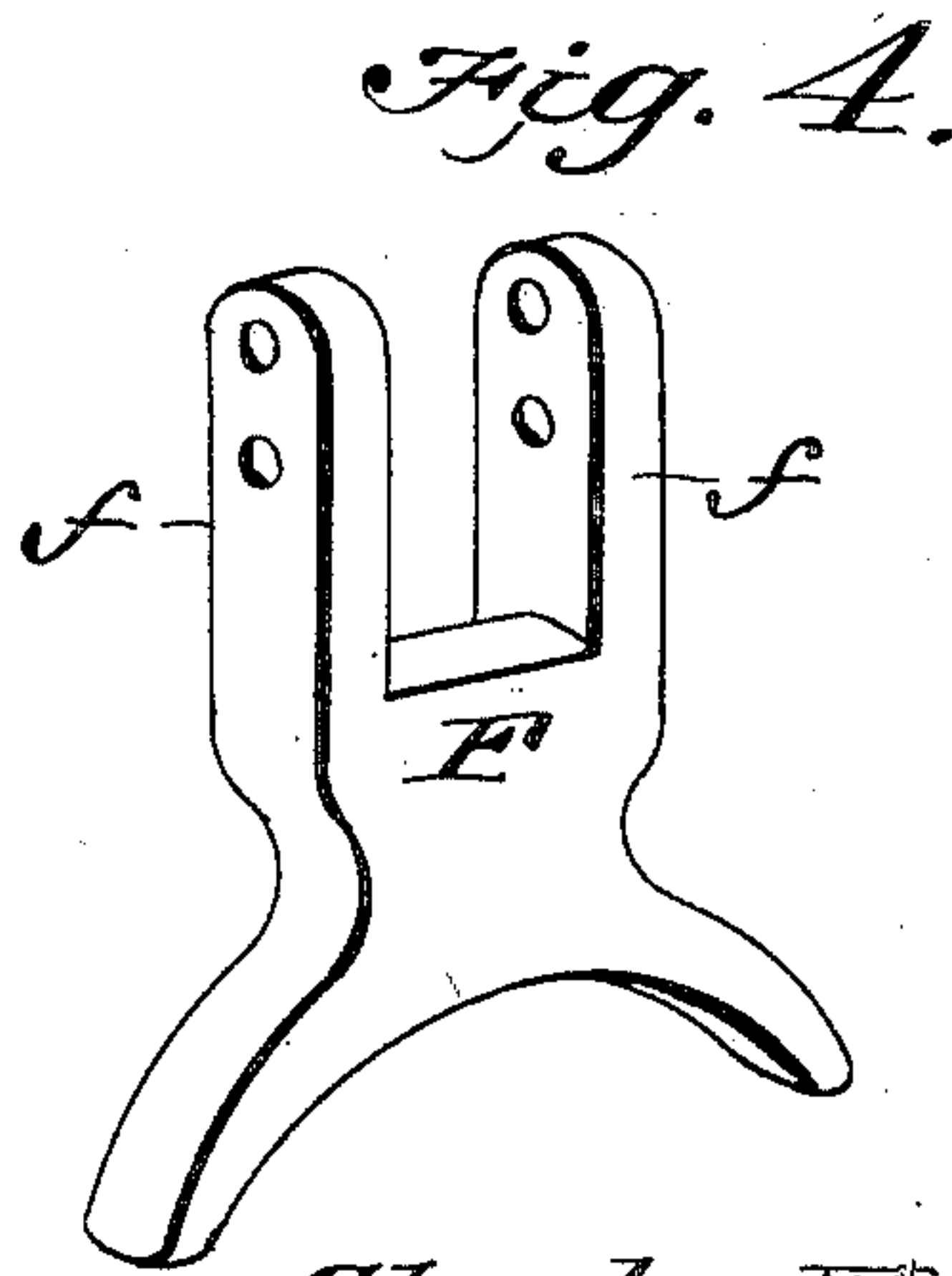
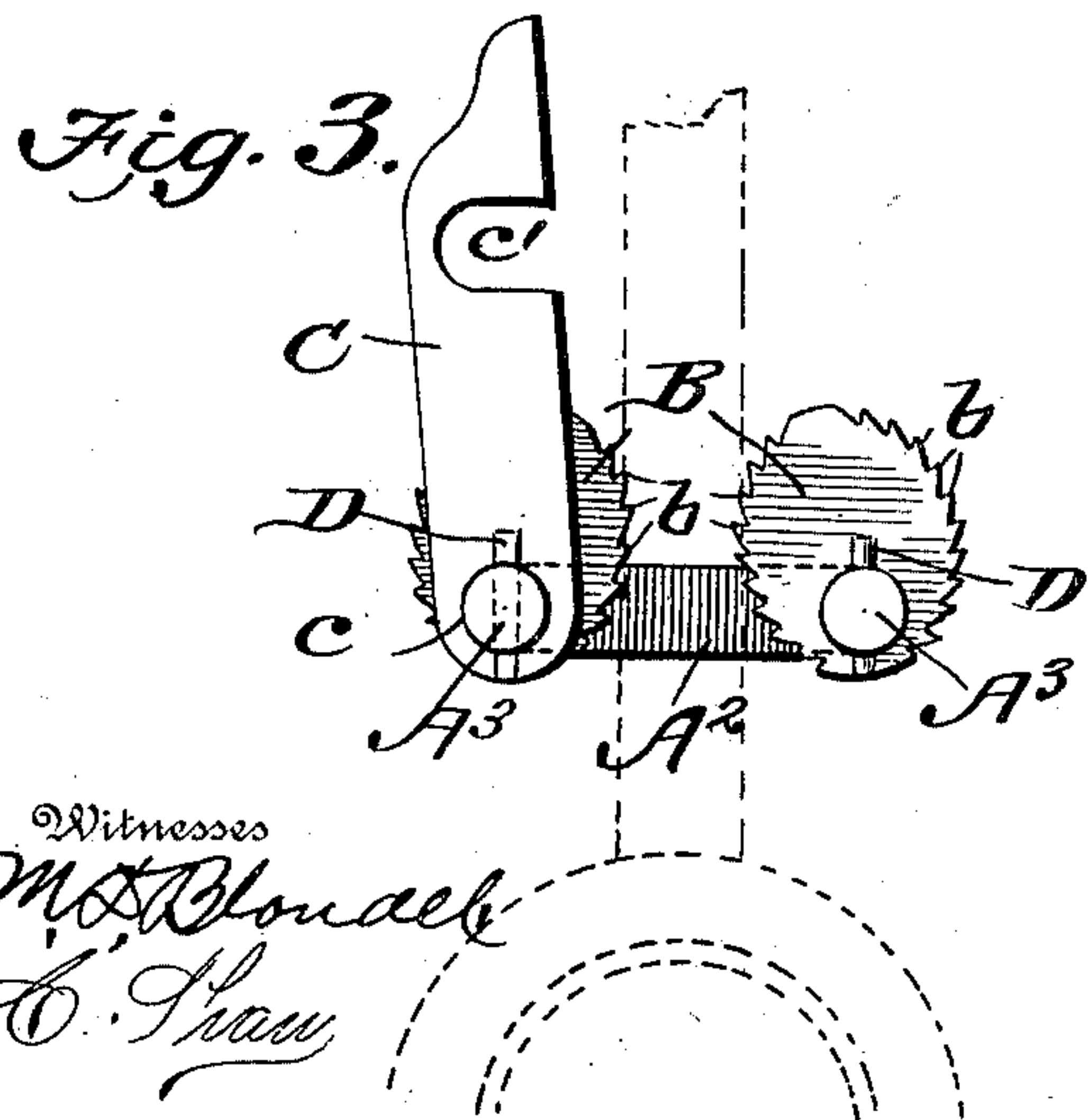
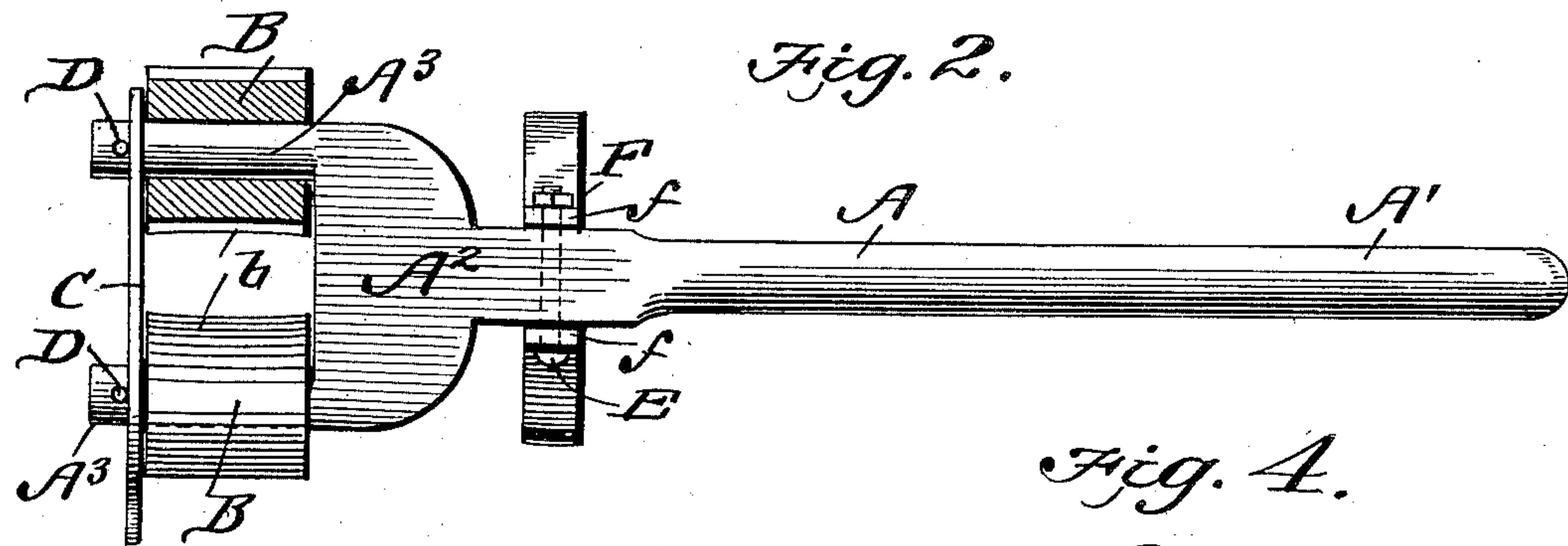
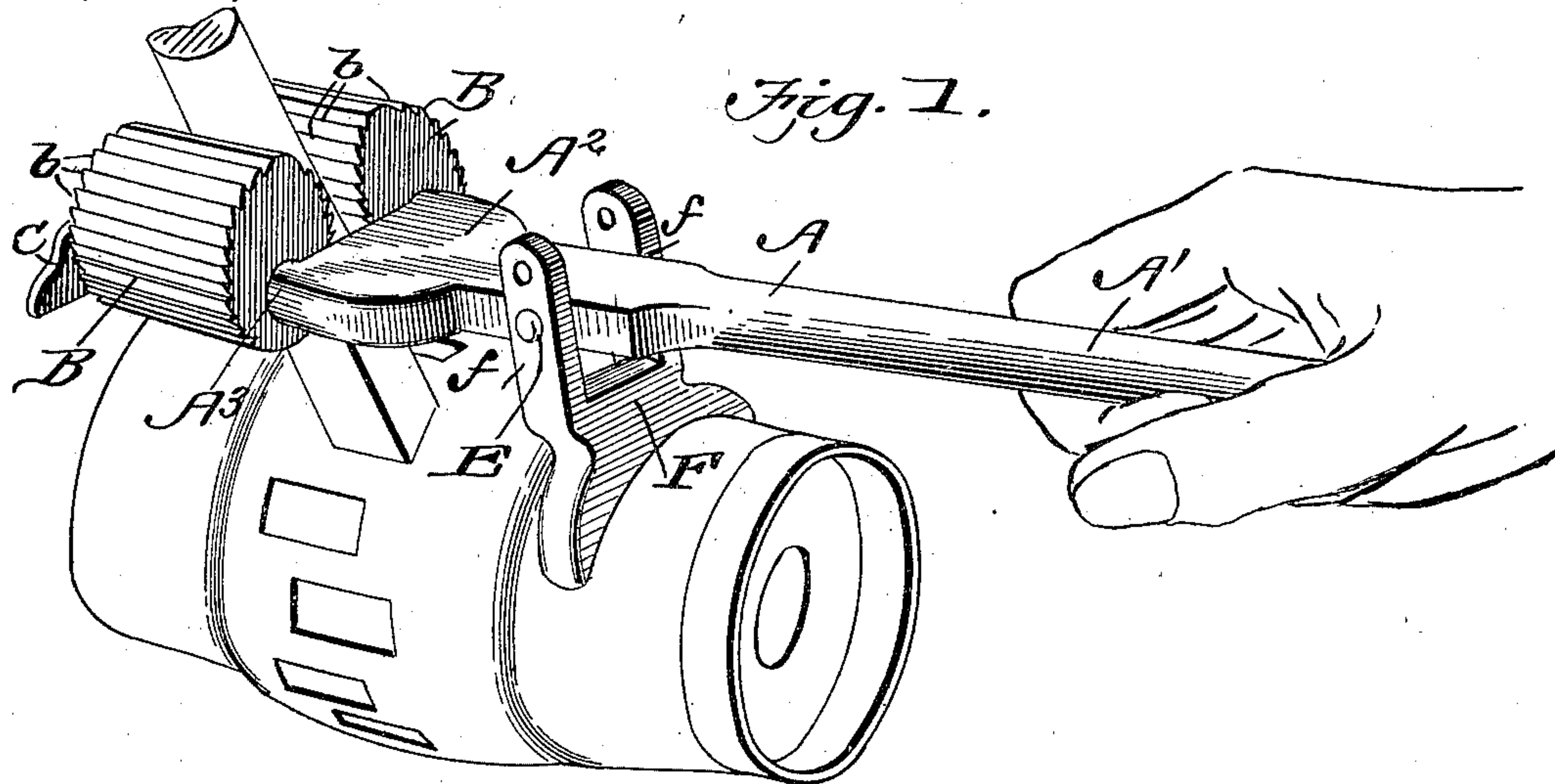


No. 701,519.

Patented June 3, 1902.

C. W. SLEETER.
VEHICLE SPOKE PULLER.
(Application filed Sept. 28, 1901.)

(No Model.)



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UNITED STATES PATENT OFFICE.

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VEHICLE-SPOKE PULLER.

SPECIFICATION forming part of Letters Patent No. 701,519, dated June 3, 1902.

Application filed September 28, 1901. Serial No. 76,909. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. SLEETER, a citizen of the United States, residing at Independence, in the county of Jackson and State of Missouri, have invented a new and useful Vehicle-Spoke Puller, of which the following is a specification.

My invention is an improved device for drawing or removing spokes from the hub of a wheel, and is designed principally for the use of carriage or wagon builders; and the object of my improvement is to provide a device in which broken or disfigured spokes may be easily and conveniently removed without disturbing the remainingspokes in the wheel. In carrying out this object I provide a lever with gripping-cylinders, which are loosely held upon stub shafts or spindles formed on the lever for engagement with the spoke, and at a suitable point upon the lever I journal a bracket for engagement with the hub and for the purpose of providing a fulcrum-point whereby the lever may be operated to extract the spoke.

With these objects in view my invention also consists in the peculiar constructions and combinations of parts, as will be fully described in the following specification and pointed out in the claim, reference being had to the drawings, in which—

Figure 1 is a perspective view showing the general application of the device. Fig. 2 is a plan view of the device with one of the cylinders shown in section. Fig. 3 is a front view of the device, showing the manner of applying the same to a spoke; and Fig. 4 is a detail perspective view of the bracket.

In carrying out my invention I employ a lever A, one end of which terminates in a handle portion A' and its opposite end in a broadened head-section A², from which protrude forwardly short or stub shafts A³ A³, upon which are journaled gripping oval-shaped cylinders B, whose peripheries are notched or provided with teeth b, as shown. These cylinders are held in position by means of a plate or bar C, which has one end provided with an aperture c, through which one of the shafts protrudes, while its opposite end is provided with a slot c', that is adapted to engage the opposite shaft, and in practice I prefer to hold the plate or bar on the shaft by means of cotter-

pins D D. Immediately back of the head the lever is provided with an aperture through which a bolt E passes, that is designed for holding a bracket-plate F to the lever. This bracket-plate is intended to act as a fulcrum for the lever and has two arms f f, between which the lever is held, the outer ends being provided with a series of apertures to permit of the lever being adjusted to fit wheels whose spokes are arranged at different distances apart. The lower end of the bracket is recessed to snugly fit the hub of a wheel, as shown in Figs. 1 and 4 of the drawings.

In operation the plate or bar is first swung upwardly, as shown in Fig. 3, and the cylinder turned so as to allow the spoke to be passed freely between them. Then the plate or bar is dropped down into place and the cylinders turned until they engage the spoke. Then the lever is lowered until the fulcrum-plate engages the hub, when by a downward movement of the handle portion of the lever the spoke will be quickly and easily withdrawn from the hub. It will thus be seen that the operation is exceedingly simple and requires but a short time for adjustment and may be operated by any one without requiring a special knowledge of the work.

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

The combination of a lever having one end provided with a handle-section, its opposite end having a head formed thereon from which protrude short shaft-sections, toothed cylinders journaled on the shafts, a retaining-plate held upon one of the shafts and adapted for engagement with the opposite shaft, and a fulcrum-bracket secured to the lever adjacent the head, the said bracket consisting of a body portion having arms protruding therefrom and each provided with a series of apertures through one of which is designed to pass a bolt for securing the said bracket to the lever, the opposite end of the bracket having a semicircular recess formed therein, substantially as shown and described.

CHARLES W. SLEETER.

Witnesses:

WM. F. RAMSEY,
ADAM V. GRAVES.