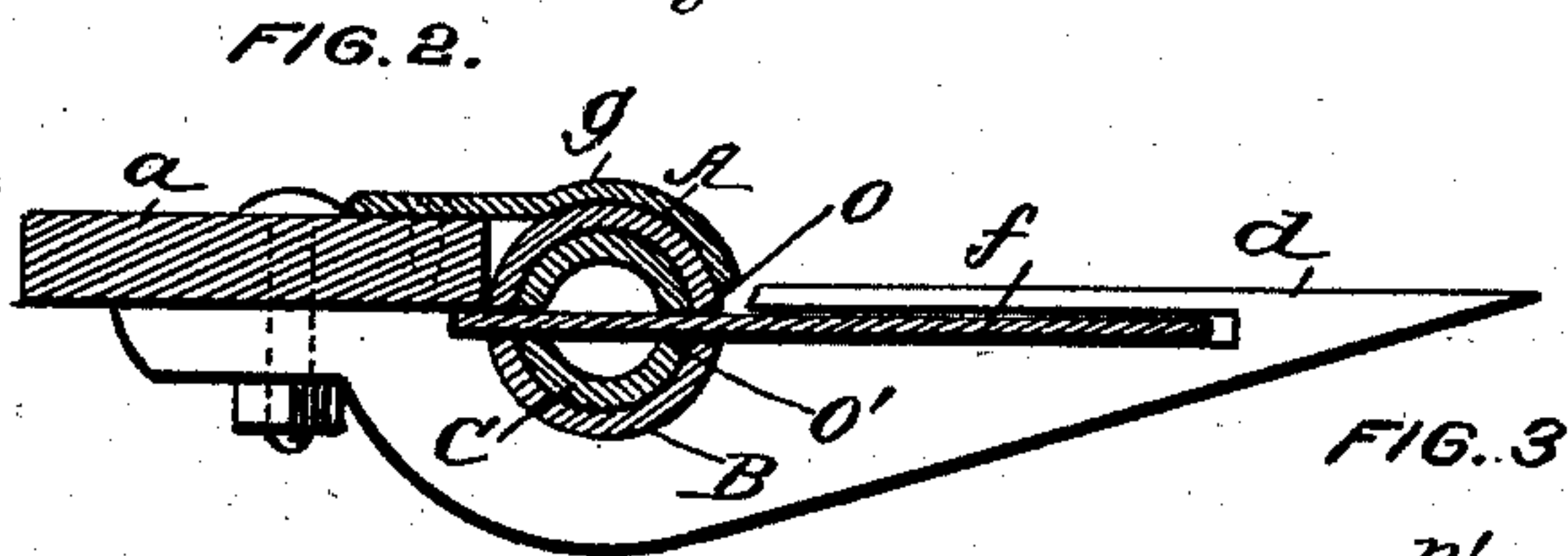
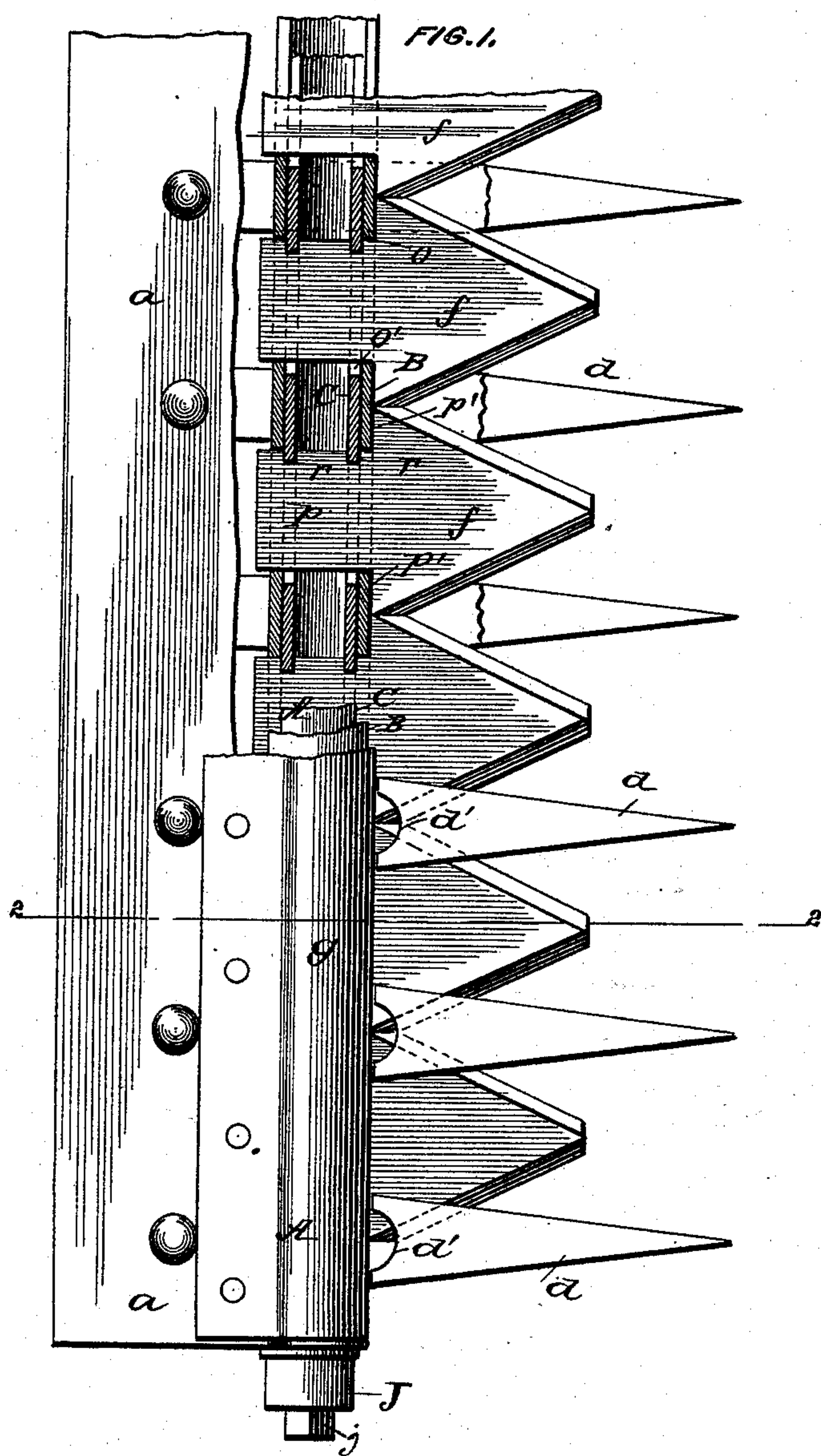


(No Model.)

F. E. PARKER & R. M. CLARK.
CUTTER BAR.

No. 416,738.

Patented Dec. 10, 1889.



WITNESSES:

Fred G. Dieterich
Jos. A. Styan

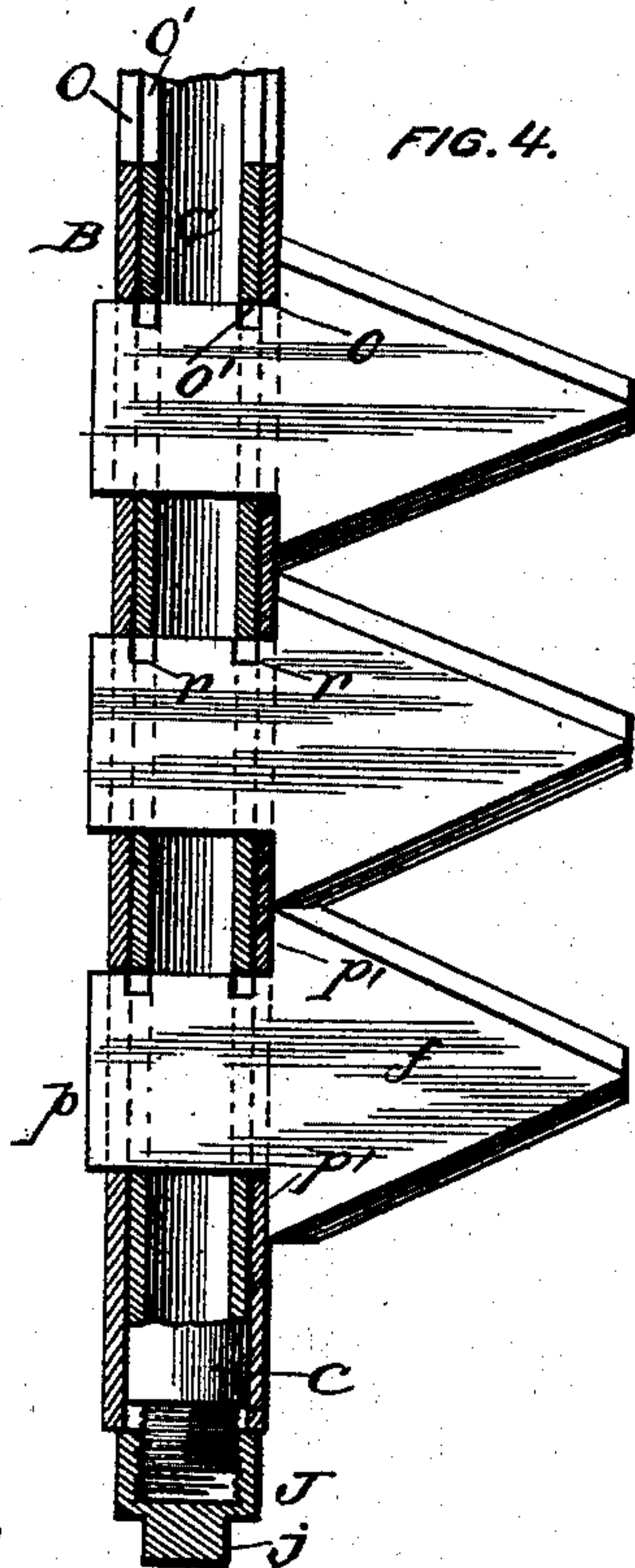
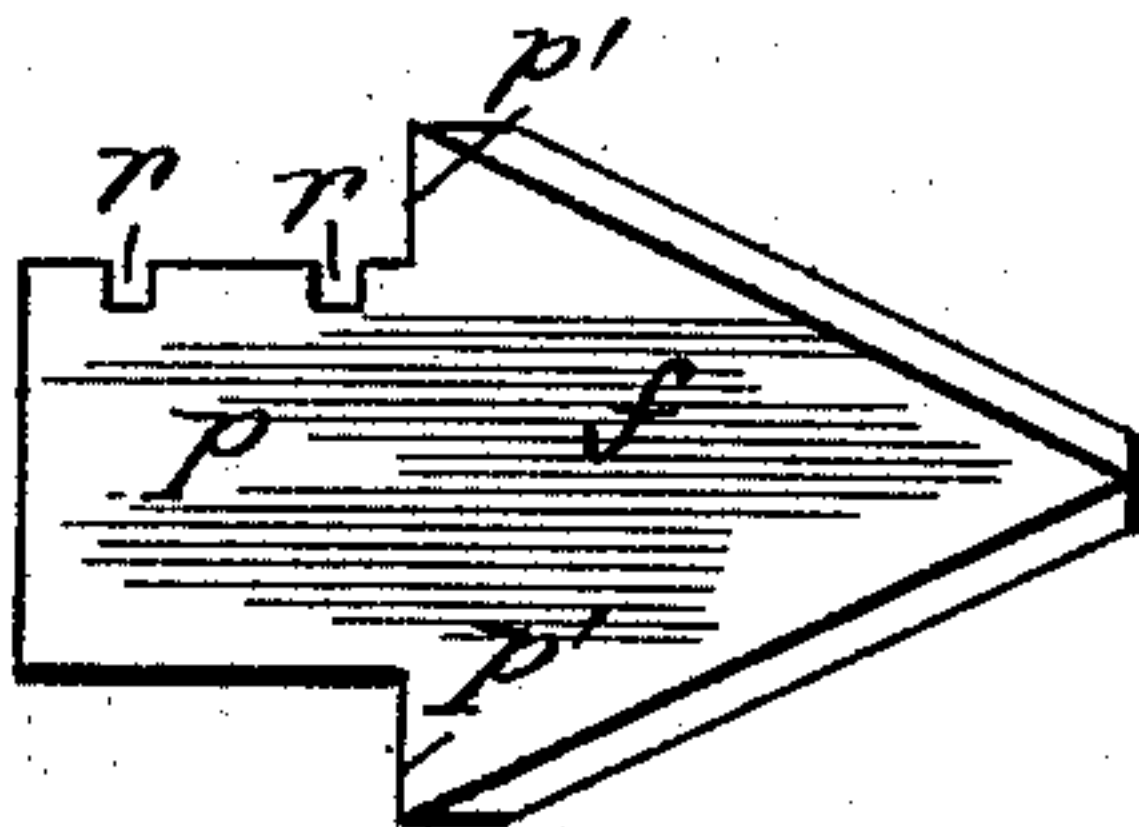
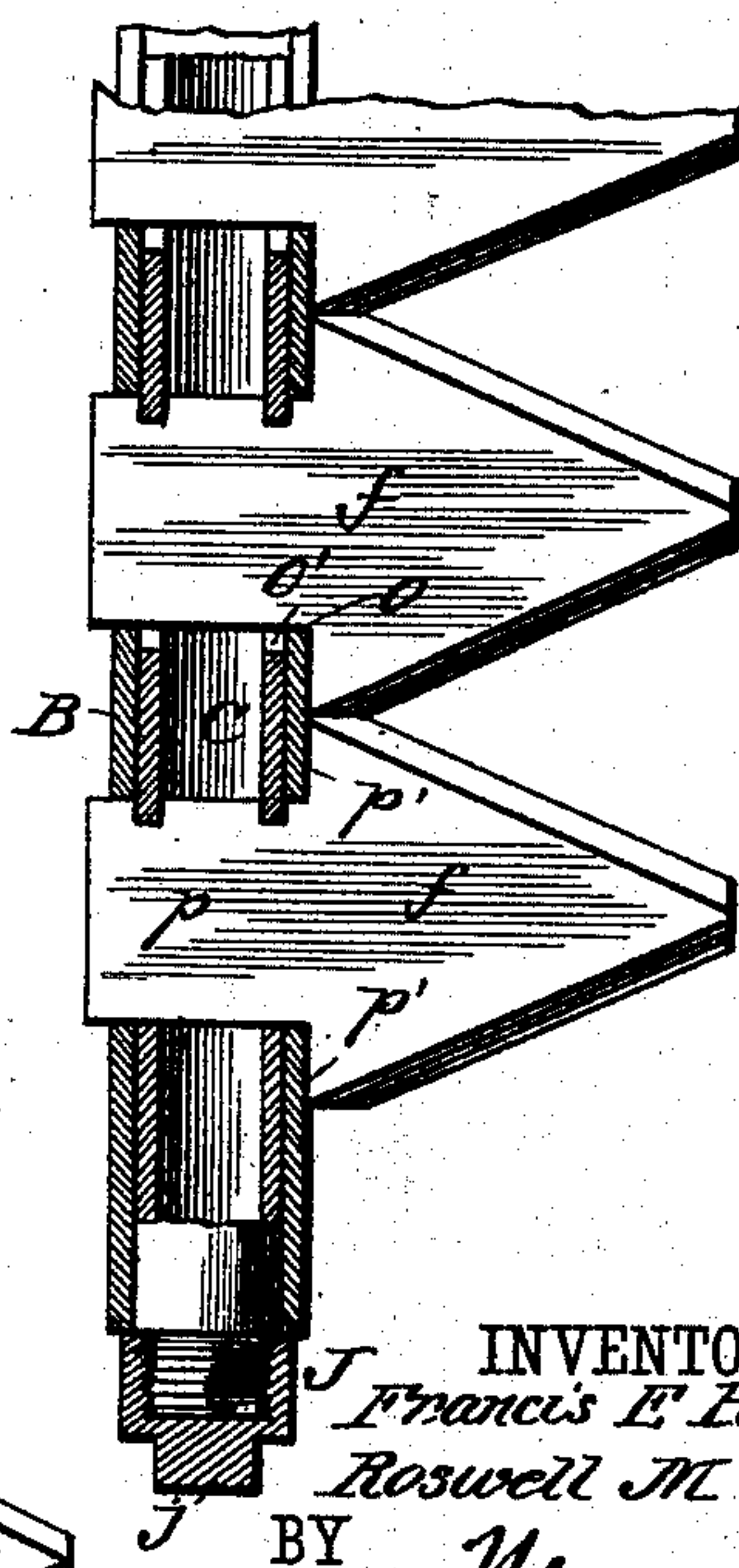


FIG. 5.



INVENTOR:

Francis E. Parker
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BY

Merrill

ATTORNEYS.

UNITED STATES PATENT OFFICE.

FRANCIS E. PARKER AND ROSWELL M. CLARK, OF KANSAS CITY, MISSOURI.

CUTTER-BAR.

SPECIFICATION forming part of Letters Patent No. 416,738, dated December 10, 1889.

Application filed August 28, 1888. Serial No. 284,031. (No model.)

To all whom it may concern:

Be it known that we, FRANCIS E. PARKER and ROSWELL M. CLARK, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Cutter-Bars, of which the following is a specification.

The object of our invention is to provide simple means whereby the necessity of riveting or bolting the sickle-knives to the cutter-bar may be done away with, and whereby the knives may be quickly locked to or detached from said cutter-bar.

To this end our invention consists in certain novel arrangements and combination of parts, as will be hereinafter fully described in the annexed specification, and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a top plan view, partly in section, of our improvement. Fig. 2 is a transverse section thereof, taken on the line 2 2, Fig. 1. Fig. 3 is a detail view of one of the cutters. Figs. 4 and 5 are detail views, which will hereinafter be referred to.

In the accompanying drawings, *a* denotes the finger-bar, and *d* the guard-fingers secured thereto, as shown. Semicircular recesses *d'* are formed in the upper faces of the guard-finger *d*, adjacent to the finger-bar *a*, in which is mounted the cutter-bar A, which consists of two tubes B C, sliding one within the other, and which are provided with coincident horizontal slots O O'. One end of the inner tube C is provided with an exteriorly-threaded extension, upon which is fitted the adjusting-nut J, which is provided with a squared projection *j*, for the reception of a wrench or key.

g denotes a cap-plate, which is secured at its inner end to the finger-bar and extends over the cutter-bar and holds the same in position, as will be clearly understood by reference to Fig. 2 of the drawings.

f indicates the cutters, one of which is shown in detail, Fig. 3, and which are each provided with a shank *p*, provided in one of its faces with notches *r r*, as shown. The body portions of the knives are extended laterally to each side of the shanks, forming shoulders at their rear edges, as at *p' p'*.

When it is desired to attach the knives to the cutter-bar, the tubes B and C are adjusted to the position shown in Fig. 4 of the drawings, so as to bring the slots O O' in the same coincident planes. The shanks *p* of the knives, which are of a width to fit the openings O and O', are then inserted therein, their shoulders *p' p'* bearing against the outer tube. The outer tube is then held in a fixed position by means of the shanks of the knives fitting the opening O, as shown. A wrench or other tool is then applied to the nut J, the inner end of which bears against the outer tube, and by turning the said nut the inner tube will be drawn toward the same and be caused to engage the notches *r r* of the knife-shanks, as clearly illustrated in Fig. 5 of the drawings, and thereby securely locking the knives in place. By this construction it will be seen that the knives may be locked in place, or any one of them removed when desired and another inserted in place in but a moment of time.

Our invention is exceedingly simple in construction, cheap as to cost, and very effectual in its desired operation.

Having thus described our invention, what we claim is—

1. The combination of a cutter-bar composed of two tubes or barrels B and C, sliding one within the other, provided with coincident mortises O and O', respectively, with the cutters *f*, having the notches *r r* in their shanks, substantially as and for the purpose described.

2. The combination of the cutters *f*, provided with shanks *p*, forming shoulders on the cutters, and with the notches *r r* in the edge of one side of the shanks, with a cutter-bar composed of two tubes or barrels sliding one within the other and provided with coincident mortises, substantially as shown and described.

FRANCIS E. PARKER.
ROSWELL M. CLARK.

Witnesses:

C. W. WADDELL,
J. A. STEELE.