

(No Model.)

H. McPHERSON.

SNAP HOOK.

No. 384,992.

Patented June 26, 1888.

FIG. 1.

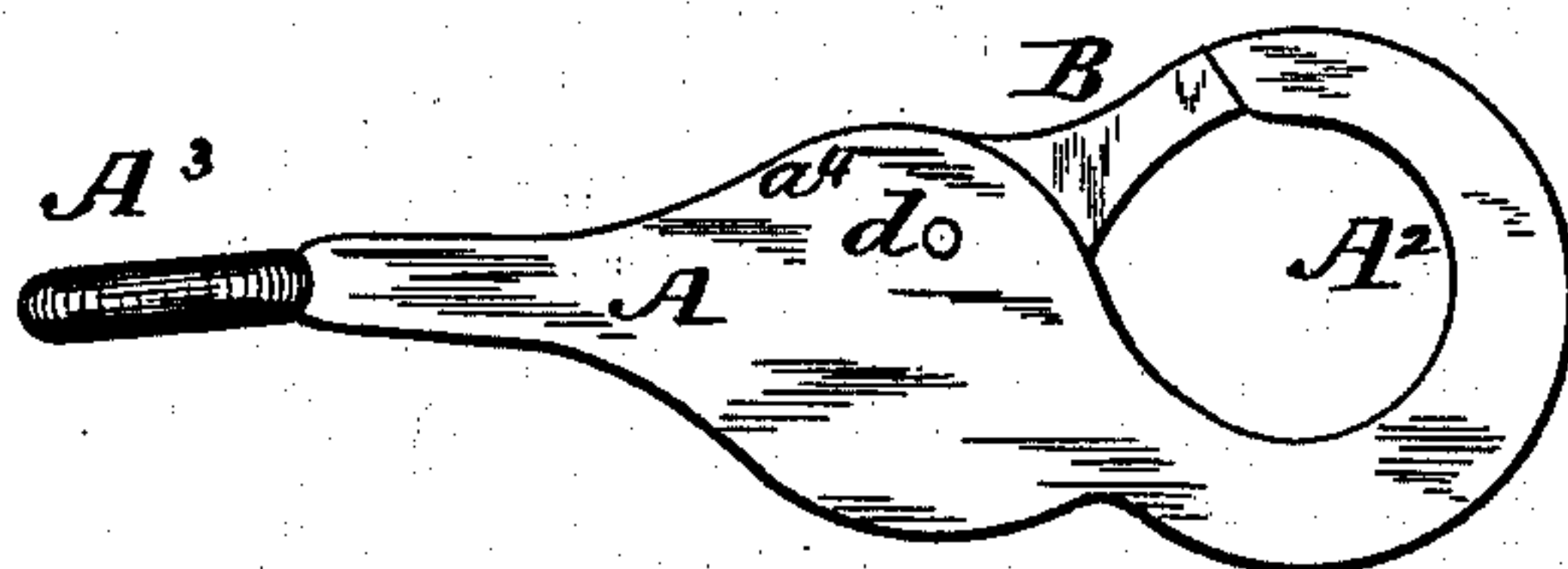


FIG. 2.

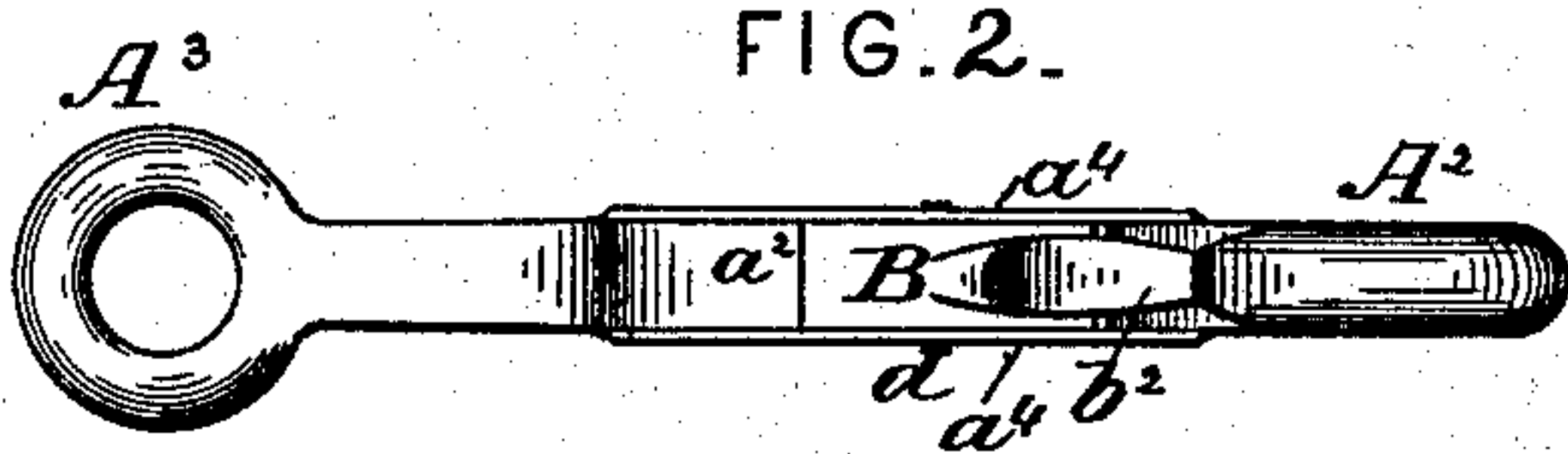


FIG. 3.

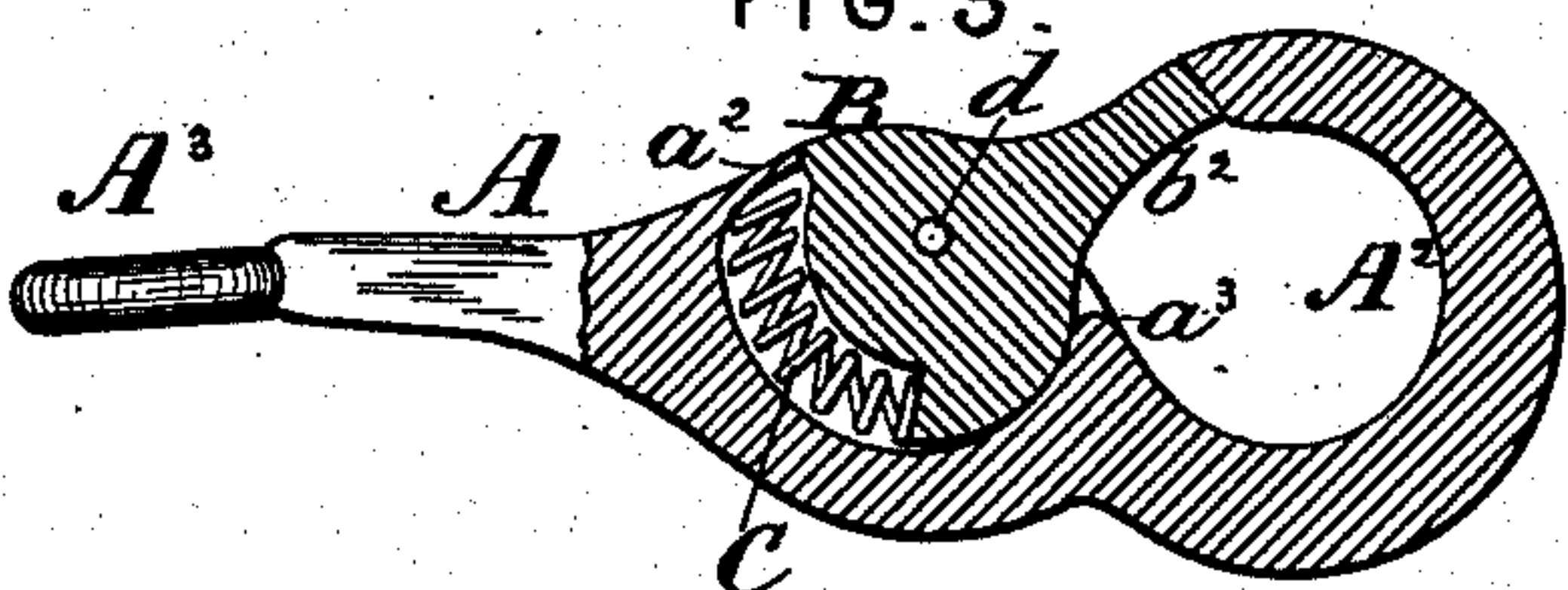


FIG. 4.

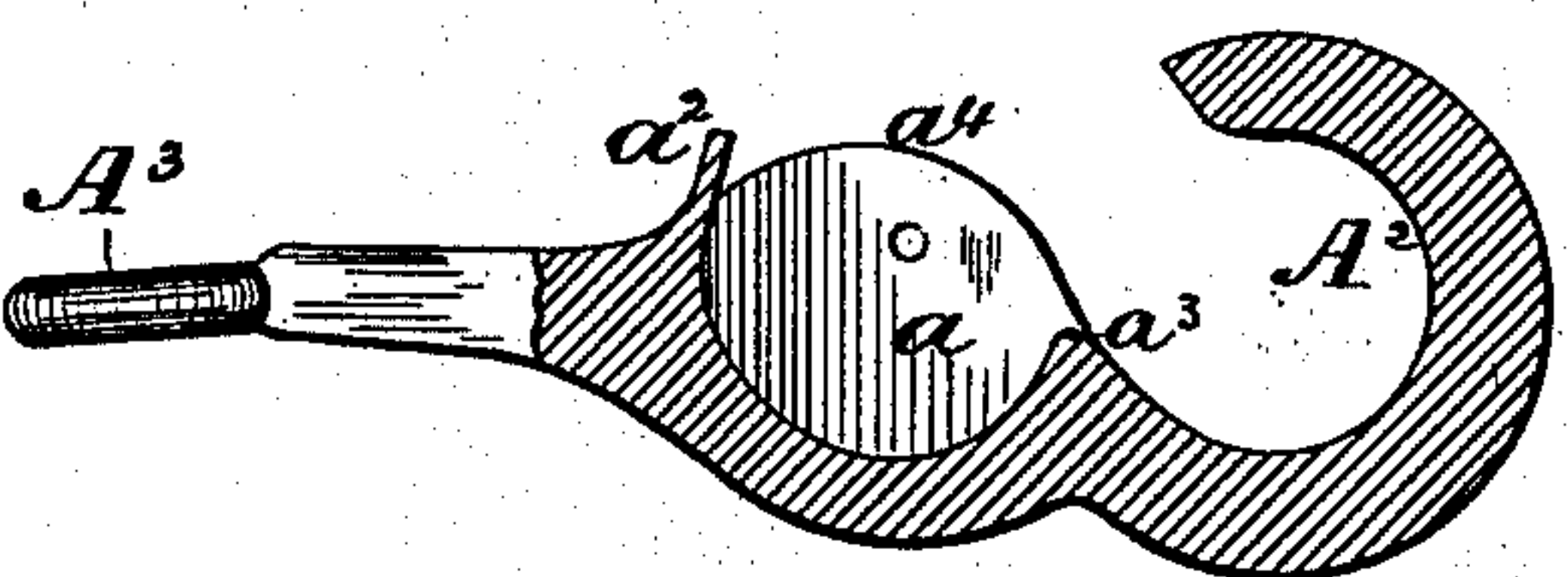
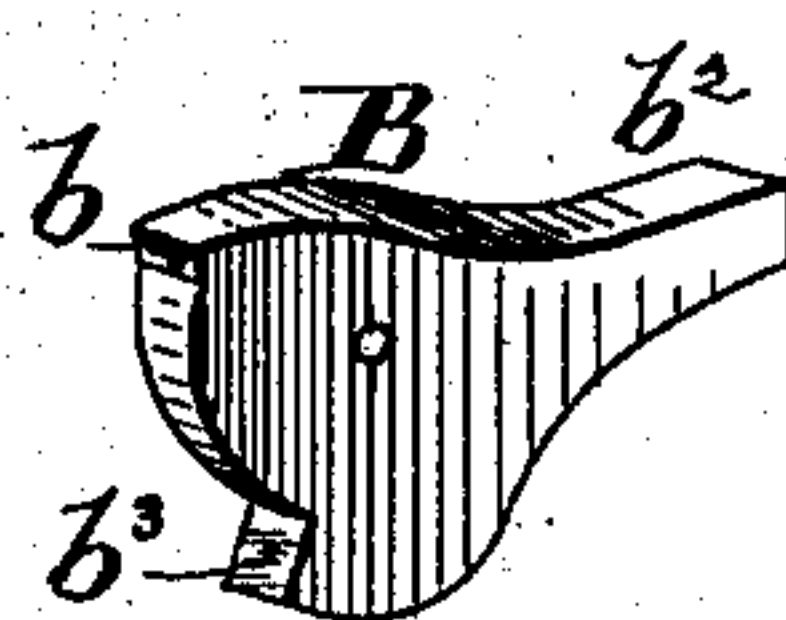


FIG. 5.



ATTEST -

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UNITED STATES PATENT OFFICE.

HENRY McPHERSON, OF TROY, NEW YORK, ASSIGNOR TO THE SWEET & CLARK MANUFACTURING COMPANY, OF SAME PLACE.

SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 384,992, dated June 26, 1888.

Application filed April 20, 1888. Serial No. 271,275. (No model.)

To all whom it may concern:

Be it known that I, HENRY McPHERSON, a citizen of the United States of America, residing at Troy, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Snap-Hooks, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to certain improvements in snap-hooks, such as may be employed to connect various parts of a harness, and for any other purpose where it is necessary to have an easy means for connecting and disconnecting parts; and the objects of my improvement are to produce a simple and inexpensive snap-hook having a latch pivoted to the frame thereof and a spring located within the segmental cavity of said frame. I attain these objects by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a side view of a snap-hook constructed in accordance with my invention. Fig. 2 is a top view of the same. Fig. 3 is a longitudinal section of the same. Fig. 4 is a longitudinal section of the frame with the spring retaining-lip turned up to prevent the necessity of coring the cavity in the frame. Fig. 5 is a perspective view of the latch.

In said drawings, A represents the frame or body, having at one end the hook A^2 and at the other end a ring, A^3 , that may either be flattened to receive a leather strap, or circular, as shown, to receive a link of a chain. Within the body A is formed a semicircular cavity, a , having two flat side walls, a^4 , integral with said body, to receive the segmental inner portion of the latch B and the spring C. The latch is connected to the body A by means of a pivot-pin or rivet, d , passing therethrough. To dispense with the use of a core to produce the cavity a and permit the body A to be withdrawn from the sand, said body is formed with a standing lip, a^2 , at one end of said cavity, as shown in Fig. 4, and while said lip is standing up it permits the insertion of the spring in the cavity made therefor, even after the latch has been riveted to the body A, and after the spring has been inserted said lip can

be bent down, as shown in Fig. 3. Said lip forms then not only a closure for the spring, but an abutment for the upper rear angle, b , of the latch to abut against, and prevents the tongue b^2 of the latch from passing outwardly beyond the point of the hook A^2 . As before stated, the outer end of the spring bears against the bent-down lip a^2 ; but the opposite end of said spring bears against a radial shoulder, b^3 , formed upon the under side of the latch; and to prevent the spring from becoming "set" by being repeatedly unduly compressed, there is a flange, a^3 , extending upward on the body A adjacent to its hook, for the under side of the tongue b^2 to abut against when said tongue has been sufficiently depressed to admit an ordinary-sized ring of a chain or of a part of a harness.

Although I prefer a coiled spring, as shown at C, as the chamber for its reception can be of large size, a flat spring may be used for the same purpose by having one of its ends abutting against the lip a^2 and the other against a notch in the radial shoulder b^3 of the latch.

Having now fully described my invention, I claim—

1. A snap-hook consisting of the body A, having the semicircular cavity a therein, having two flat side walls integral with said body, and the closure a^2 with the latch B pivoted thereto, and having the shoulder b^3 and a spring interposed on the periphery of said latch between said closure and shoulder, substantially as and for the purpose described.

2. In a snap-hook, the combination of the body A, having the segmental cavity a and two flat side walls, a^4 , integral with said body, the closure a^2 at one end of said cavity, and the flange a^3 at the other, with the latch B pivoted to said body, and having the shoulder b^3 and a spring interposed on the periphery of said latch between the closure a^2 and said shoulder, substantially as and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY McPHERSON.

Witnesses:

W. H. H. SAUNDERS,
FRANK P. HARDEE.