(No Model.)

A. LIPPE.

COMBINATION TOOL.

No. 561,597. Patented June 9, 1896.

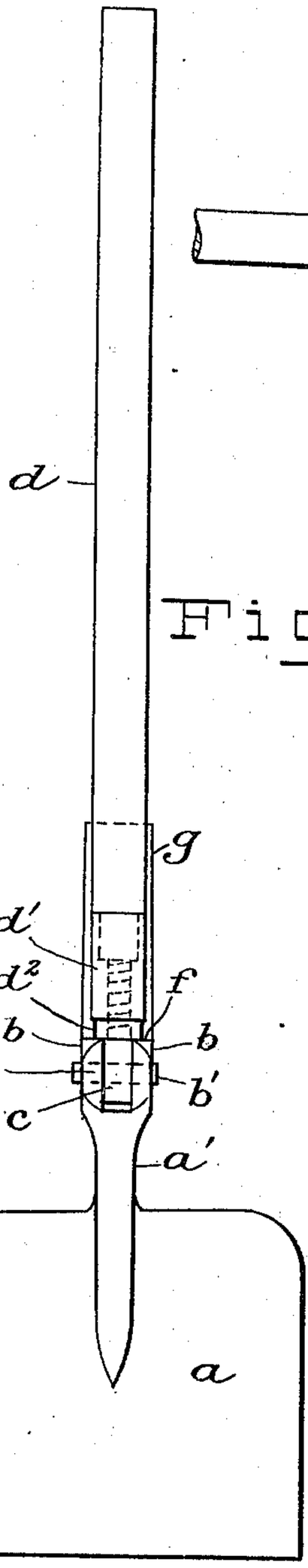

Fig. 1.

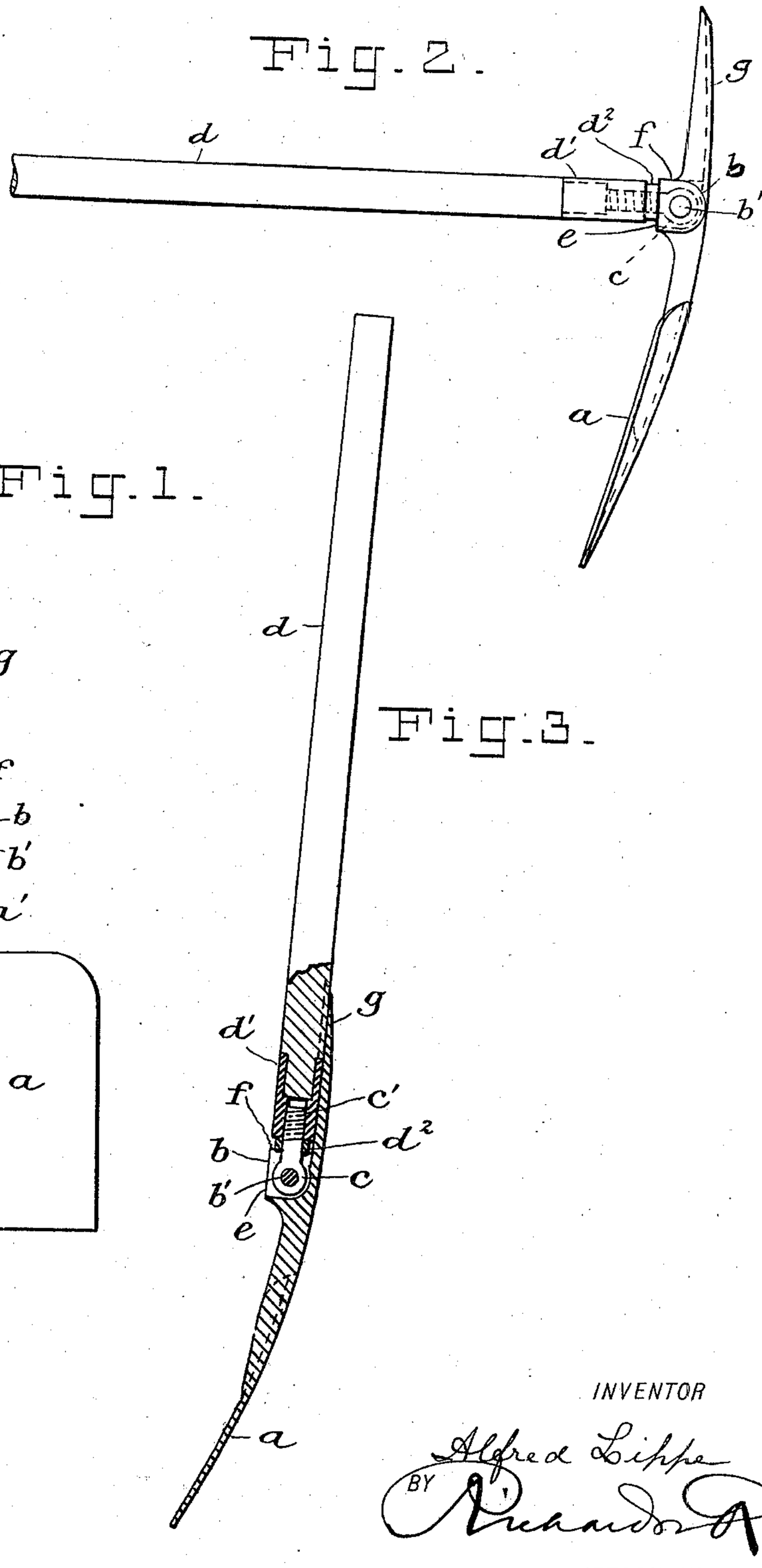

Fig. 2.

Fig. 3.

WITNESSES:

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UNITED STATES PATENT OFFICE.

ALFRED LIPPE, OF NEW YORK, N. Y.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 561,597, dated June 9, 1896.

Application filed August 30, 1895. Serial No. 561,015. (No model.)

To all whom it may concern:

Be it known that I, ALFRED LIPPE, a citizen of the Republic of France, residing at 14 Cottage Place, in the city, county, and State of New York, have invented a new and useful Combination-Tool, of which the following is a specification.

This invention relates to laborers' tools, and has for its object the construction of a simple and economical combination-tool.

The invention is designed to produce a combined spade, hoe, and pick, but may be altered to embrace other tools or to exclude one or more of those here mentioned.

It will be more fully hereinafter described with reference to the accompanying drawings, in which—

Figure 1 is a plan view of my invention. Fig. 2 is an elevation, and Fig. 3 is a sectional view.

Referring to the drawings by letter, *a* represents the blade of the shovel, which may be of any suitable size, shape, or material, and *a'* represents the tang or neck thereof. This tang or neck, it will be observed, is provided with a pair of jaws *b b*, through which passes a pin *b'*. A screw-eye *c* embraces pin *b'* and is pivoted thereon. The handle of the instrument *d* has one end threaded to receive the threaded end of the screw-eye *c* and to move thereon. The jaws *b b* are each provided with flat faces *e* and *f*, which faces are at right angles to each other, whereby one will be in substantially the same plane as the neck and blade of the shovel, and the other, of course, will be perpendicular thereto. When handle *d* is tightly screwed down upon screw-thread *c'*, when the latter is pointing in the same direction as the neck of the blade, the end of the handle, which is preferably cut off at right angles, as shown in the drawings, will impinge tightly against face *f* of jaws *b* and hold the blade in position to use the instrument as a shovel. To transform this shovel into a hoe, it is only necessary to unscrew handle *d* a few turns, swinging it around at right angles to blade *a*, and then screw it up tightly against face E.

By forming upon neck *a'* a projection *g*, which is in the form of a pick-point, hatchet or adz blade, or other suitable tool, the tool may be made to embrace any number of different tools in combination, as desired. The pick-point or other tool, however, should be formed in prolongation of the neck of the shovel in order that when not in use it will lie flat against the handle, as shown in Fig. 3.

It is of course obvious that the construction herein described can be mechanically considerably improved without in the least departing from the spirit of my invention. For instance, handle *d* should be provided at its ends with a suitable ferrule D', and a washer d^2 should be placed on the screw-eye between the handle and the jaws; but these alterations are immaterial features and only tend to improve the mechanical construction of the instrument.

It will be further observed that the number of flat faces *e b* is not material. These may be so located that the handle will assume any desired position with respect to the blade.

It may be also noted at this time that I do not herein limit myself to the construction herein shown for securing the blade in its various positions, as I consider any means for accomplishing the purpose as within the spirit and scope of my invention.

Having thus described my invention, I claim—

1. In combination, the blade, a handle pivotally connected thereto to permit the adjustment of the blade to different positions relatively to the handle and the lock at the joint, the said handle being capable of rotation and said lock being controlled by the rotation of the handle to hold the parts in adjusted position.

2. In combination, the blade having the bearing-faces, the handle pivoted to blade adjacent to said bearing-faces and having its end adapted to bear thereon, said handle being movable longitudinally in relation to the pivot and the adjustable connection between the handle and the blade.

3. In combination, the blade having the bearing faces or shoulders, the handle ar-

ranged to bear on one or the other of said shoulders and the adjustable pivotal connection between the handle and blade comprising the screw-eye, said handle when rotated being moved longitudinally on said eye to and from the bearing faces or shoulders, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

ALFRED LIPPE.

Witnesses:
R. J. LECOMTE,
WM. WALLACE WHITE.