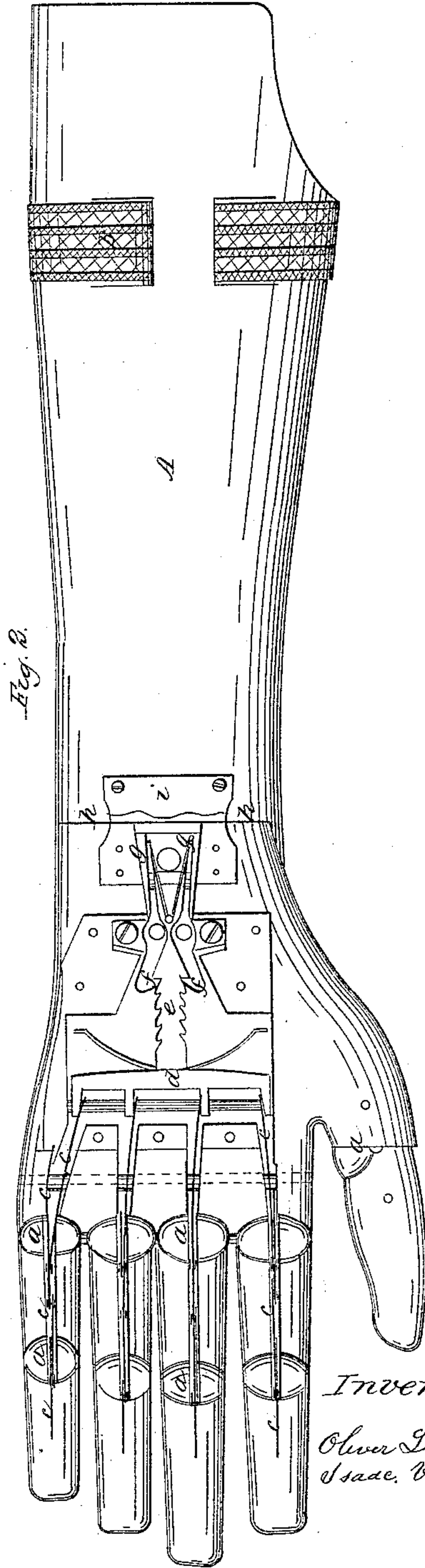
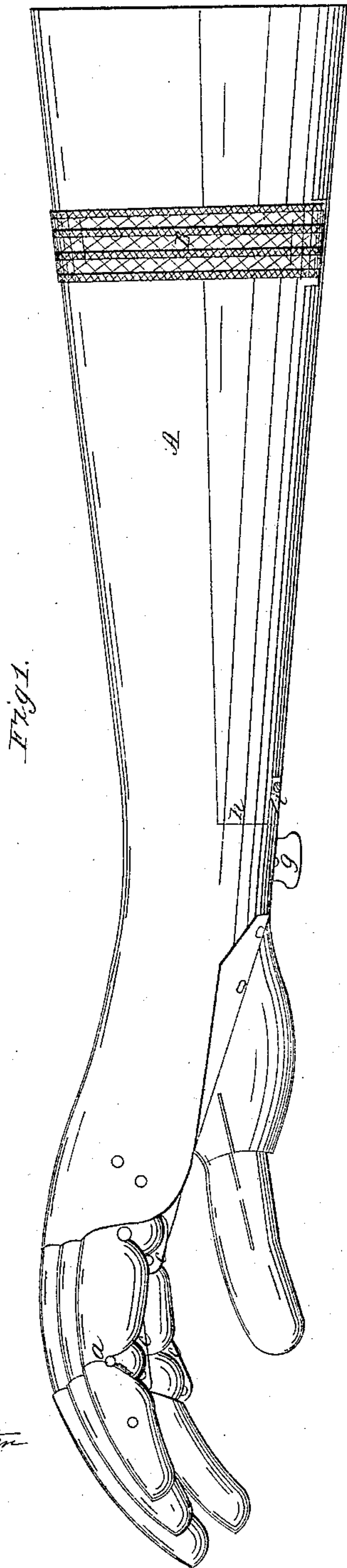


Lindsay & Vance,
Artificial Arm and Hand.

N^o 50,014.

Patented Sep. 19, 1865.



Witnesses:

J. P. Patten
A. W. Hullman

Inventors:

Oliver Lindsay
Isaac Vance

UNITED STATES PATENT OFFICE.

OLIVER LINDSAY AND ISAAC VANCE, OF WASHINGTON, PENNSYLVANIA.

IMPROVEMENT IN ARTIFICIAL HANDS.

Specification forming part of Letters Patent No. **50,014**, dated September 19, 1865.

To all whom it may concern:

Be it known that we, OLIVER LINDSAY and ISAAC VANCE, of Washington, in the county of Washington, in the State of Pennsylvania, have invented a new and Improved Artificial Hand; and we do hereby declare that the following is a full and exact description thereof.

The nature of our invention consists in providing the hand with artificial ligatures made of steel plates running through the fingers, to enable the fingers to open and close, and to remain opened and closed, as desired, the ligatures to be worked by means of a steel spring and ratchet or screw working on a slide-bar with ratchets, and in providing a socket for the arm made into two or more parts, enabling the hand to be more readily adjusted to the amputated limb.

We construct our artificial hand after the pattern of the human hand, the joints of the fingers *a* being the usual cup-and-ball joints, the joints being each riveted to the steel ligatures *c*, the steel ligatures running through the

fingers and hand and fastened to the slide-bar and ratchet *d e*, this ratchet enabling the hand to remain in any position where placed.

The socket *A* is divided into two or more parts longitudinally, and by a vertical joint, *h*, covered by a spring-plate, *i*, and united by a gum-elastic band, *B*, thus enabling it to be more readily adjusted and better applied to the limb.

f are the spring-dogs for holding and releasing the spring-bar *d* and ratchet *e*. These dogs are thrown out by the thumb-levers *g* or by a thumb-screw.

What we claim as our invention, and desire to secure by Letters Patent, is—

The steel ligatures, slide-bar, and ratchet or screw, in combination with the artificial finger-joints, enabling the hand to operate as desired, and also the socket, as above described.

OLIVER LINDSAY.
ISAAC VANCE.

Witnesses:

CHARLES LINTON,
A. G. MARSHMAN.