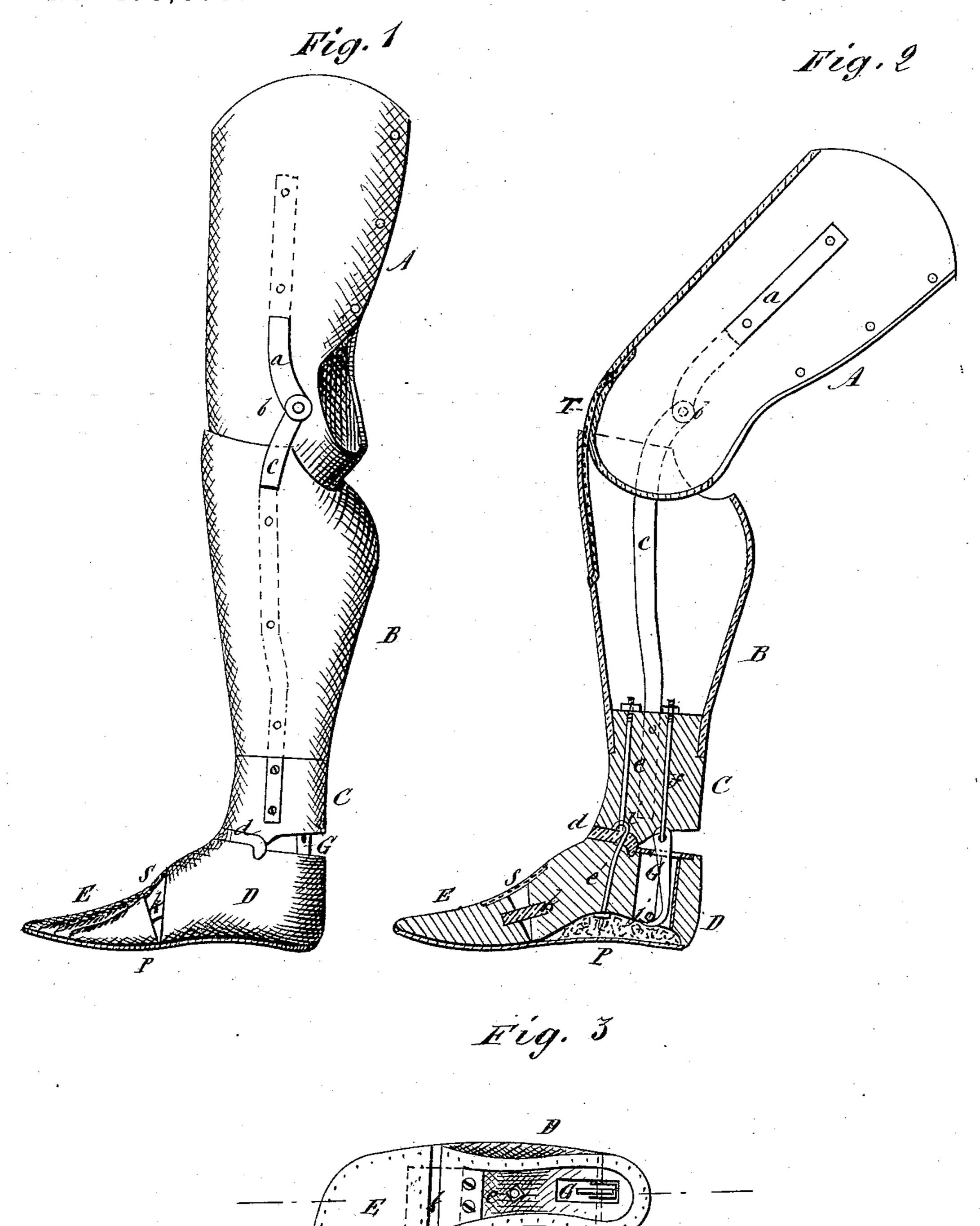
C. COLLINS.

ARTIFICIAL-LEG

No. 193,396.

Patented July 24, 1877.



WITNESSES:

C. Neveux J.H. fcarborough. INVENTOR:

6 Collins.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

CORNELIOUS COLLINS, OF ALBIA, IOWA.

IMPROVEMENT IN ARTIFICIAL LEGS.

Specification forming part of Letters Patent No. 193,396, dated July 24, 1877; application filed June 25, 1877.

To all whom it may concern:

Be it known that I, Cornelious Collins, of Albia, in the county of Monroe and State of Iowa, have invented a new and Improved Artificial Leg, of which the following is a specification:

The present invention relates to improvements upon that class of artificial legs shown in a patent granted jointly to myself and to J. H. McCalla, September 28, 1875, No. 168,140; and the invention consists in a novel construction of the ankle-joint, whereby a perfectly free articulation is allowed without noise, as will be hereinafter more fully described, and then pointed out in the claim.

In the annexed drawing, Figure 1 is a side sectional view of the limb. Fig. 3 is a bottom view of the foot.

Similar letters of reference indicate corresponding parts.

The letter A designates the thigh-socket; B, the lower-leg section; C, the ankle-block, and D E the two sections forming the foot.

The thigh socket is formed of stout leather, which is carefully crimped upon a form made from a cast of the natural limb. This socket A has rigidly secured to it two metal straps, a a, which are pivoted at b to metal straps c, that are rigidly secured to the lower leg B and ankle-block C. The section B is made of leather crimped upon a former, and suitably secured to the block C.

The lower end of the block C is curved, as shown, leaving a reduced bearing, which will allow a free motion of the foot forward and backward, as well as laterally. The front concave surface of the block C rests upon a cush- | W. R. Kelsey.

ion, d, and is held down thereon by means of a joint, i, formed of two bolts, e e'. The joint thus formed will allow free play, and the cushion d will prevent shocks in walking.

In rear of the joint i is a hook, G, which is connected by an eye-joint with a bolt, f, fixed into the block C. The hook G enters a recess made through the foot-section D, and engages loosely with a pin, j, fixed into this section. This hook-joint also allows the foot to articulate forward and backward, as well as laterally.

The bottom of section D is arched out and the space filled with hair, or some other suitable material which will prevent noise in walking and afford elasticity. The cushion thus elevation of my improved limb. Fig. 2 is a | formed is covered with a piece, P, of leather, which forms the joint for the front section E. A flat india-rubber key, k, and a spring, s, complete the toe-joint. In practice I shall inclose the foot and ankle in an india-rubber skin.

Fig. 2 shows a spring, T, connecting the thigh and lower-leg sections. This knee-spring is a strong strip of india-rubber, fastened in such manner that it will act to straighten the leg when flexed.

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

The combination of the hook G and pin jwith the ankle-block C, foot-section D, linkjoint i, and rubber cushion d, substantially as herein set forth.

CORNELIOUS COLLINS.

Witnesses:

THOS H. ELDER.