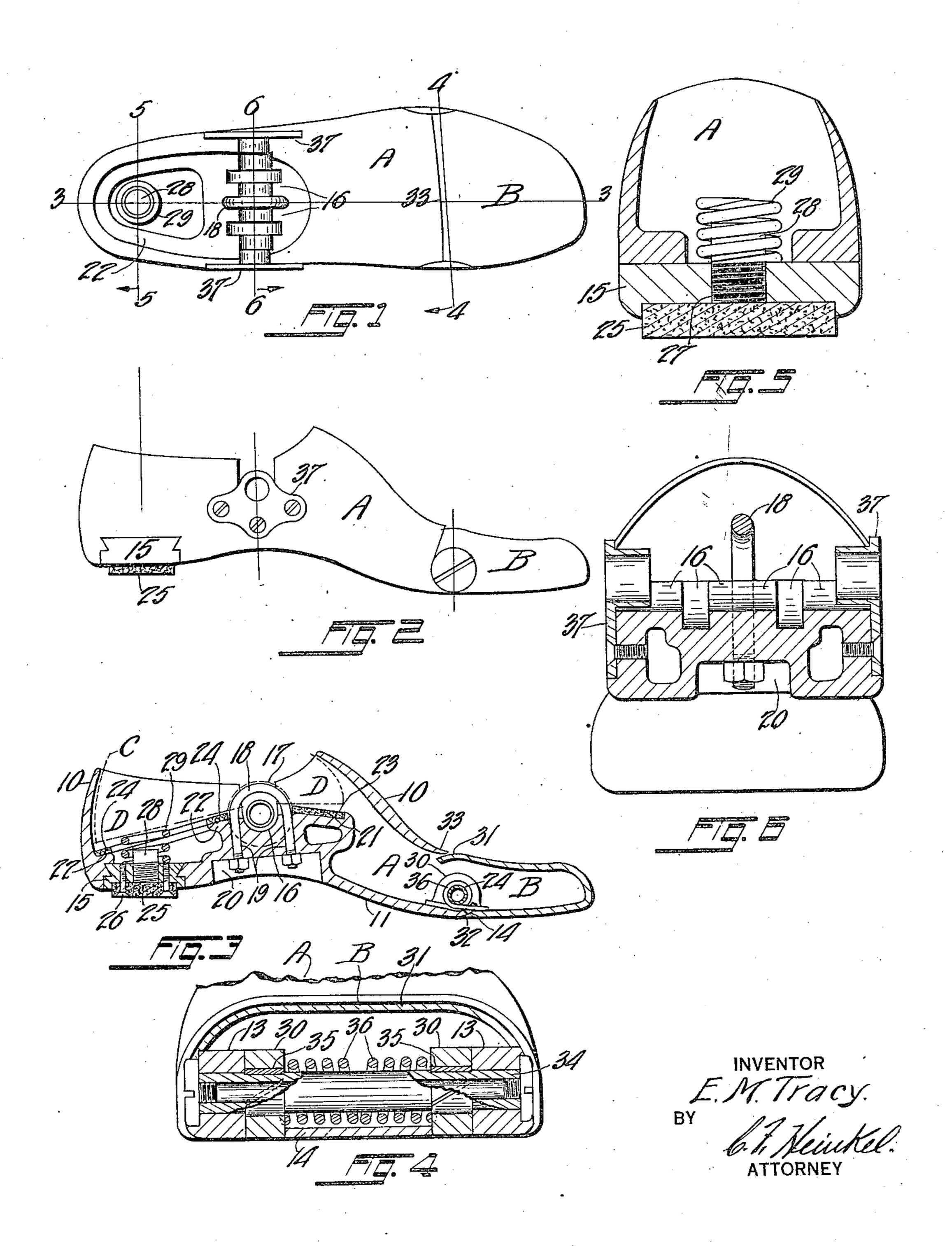
E. M. TRACY

ARTIFICIAL FOOT

Filed March 9. 1922



STATES PATENT OFFICE.

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ARTIFICIAL FOOT.

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To all whom it may concern:

a citizen of the United States, and a resi- and is hinged thereto. dent of Cleveland, county of Cuyahoga, and The foot A has the outer shell 10 and the 60 5 State of Ohio, have invented a new and use-sole 11. At the front end, the sole 11 terwhich the following is a specification.

10 foot of light weight, simple, and durable in proper relation to the other members 15 this foot may be attached.

which Fig. 1 is a plan view of a foot; Fig. prongs are located within the recess 20. 2 is a side view of Fig. 1; Fig. 3 is a section On each side of the portion 16 are the 75

25 lar parts throughout the views.

line 6—6 of Fig. 1.

Unfortunately, many persons are now caused by the act of walking. minus a foot or leg and require some sub- The heel block 15 carries the pad 25, made stitute to permit them to move about with- of felt, rubber, or other shock and noise about the usual and inconvenient crutches.

or metal, or other material, or composition or combination thereof, but it is found that the present feet are either too expensive for the average footless man to purchase, or are too heavy, or are too complicated and is introduced between the heel and the stub ation, or are not sufficiently cushioned to first strikes the ground while walking. prevent injury to the spine of the wearer, or have other defects inconvenient or injurious to the wearer.

The present invention aims to overcome these disadvantages and does so by the mechanism shown in the drawing which, of The toe B has the ears 30 and the laps 31 course, is susceptible of modifications.

Referring now particularly to the draw-

In this instance, the foot A is made of cast aluminum having sufficient strength for the purpose intended. The walls of the foot being sufficiently strong to support the structures connected therewith and portions of the structure are cut away where no metal is required. The object being to reduce the weight of the completed foot to a minimum without sacrificing any of the ears 30 and to permit replacement of the strength required for the purposes thereof. bushings when worn.

o all whom it may concern:

Be it known that I, Edward M. Tracx, portioned in a manner similar to the foot A

ful Improvement in Artificial Feet, of minates into the ears 13 and the lap portion 14. At the rear end, the heel block 15 My invention relates to artificial feet. is dovetailed into the sole 11.

The object of my invention is an artificial Near the middle portion of the foot A and 65 construction and provided with efficient thereof and to the leg C, is the bearing porjoint means and with efficient and cushioned tion 16 suitably formed to receive the bearmeans between the members of the foot as ing 17 shown dotted as a part of the leg well as between the foot and a leg to which C. This bearing 17 is held to the portion 16 70 by the U bolt 18, the prongs of which pass I attain this object by the mechanism through the openings 19 provided for that shown in the accompanying drawing in purpose, and the nuts on the ends of these

on line 3—3 of Fig. 1; Fig. 4 is a section on shelves 21 and 22 each of which is sufficientline 4—4 of Fig. 1; Fig. 5 is a section on ly inclined to permit the foot to rock on line 5—5 of Fig. 1; Fig. 6 is a section on the stub D as in natural walking.

Pieces of felt 23 and 24, or other resilient Similar reference characters refer to simi- agent, is placed upon the shelves 21 and 22 80 to prevent noise and absorb the shocks

sorbing material, which may be secured 85 Artificial feet have been made, of wood, thereto by the screws 26, or by cement, or other suitable means. This heel block 15 also has the threaded opening 27 into which the plug 28 is screwed. This plug 28 serves as a retaining means for the spring 29 which 90 get out of order easily, or are noisy in oper- D to cushion the mechanism when the heel

When it is desired to dispense with the spring 29 and rely upon the washer 24 for 95 resiliency, the plug 28 may be removed and the opening 27 may be closed with a plug not projecting above the block 15.

and 32. The lap 31 fitting to the edge 33 100 of the foot A which edge is curved concentric with the center of the ears 13 and 30.

The pin 34, preferably of tubing to reduce weight, passes through the center of the ears 13 and is held in position by any 105 suitable and well known means, preferably by the plugs as shown.

The bushings 35, preferably split and sunk into the pin 34 as shown, fit into the ears 30 to prevent wear of the openings in these 110

thereof resting against the toe B and the against said foot member and the other end other end against the foot A and is so ar- thereof acting against said toe member. 5 ranged that it will hold the toe B in normal 2. An artificial foot comprising, a foot 45 the toe can bend upwardly while the wearer and with a bearing means adapted to a leg, is in the act of walking. The laps 31 and a liner bracket on each side of said foot 10 the ears 13 of the foot A to prevent the member and provided with an upper lap ex- 50 beyond its normal position.

is located in the same position that a nat- ears on the toe member, a spring over said 15 ural foot bends while walking and the creases hinge pin and between said ears on the toe 55 form in a shoe on a natural foot, which is member, a heel member dovetailed to said not only the natural position for such a joint foot member, a resilient pad on the bottom

person has only one artificial foot.

The liner brackets 37 are secured to the bottom of said leg. sides of the foot A and the shaft 38 of the 3. An artificial foot comprising, a foot bearing 17 is journaled therein. The object of these liner brackets being to line up the foot with the leg and release abnormal ten-25 sion in the U bolts 18.

construction shown and described,

I claim:—

member provided with ears on its front end, and between said ears on the toe member, a 35 bearing means on said foot member adapted heel member dovetailed to said foot member. 75 to a leg, a resilient heel member secured to said foot member, a toe member provided with ears, a hinge pin through said ears on top of said heel member and the bottom of the foot and toe members, bushings in said said leg. ears on the toe member, and a coil spring

The coil spring 36 is placed over the pin over said pin and between said ears on said 34 and between the ears 30 and has one end toe member and one end thereof acting

position in relation to the foot A and that member provided with ears on its front end 32 of the toe B abut against the lap 14 and member, a toe member hinged to said foot spring 36 from forcing the toe B downward tending inside of the shell of said foot member and with ears, a hinge pin through The joint between the foot A and the toe B all of said ears, a bushing in each of said but also preserves the appearance in case a of said heel member, and a resilient means between the top of said heel member and the

member provided with ears on its front end and with a bearing means adapted to a leg, a shelf on each side of said bearing means, a resilient pad on each of said shelves, a liner 65 It will be seen that the apparatus shown bracket on each side of said foot member and and described embodies simplicity, durabil- concentric with said bearing means, a toe ity, light weight, and efficiency due to the member hinged to said foot member and formation and arrangement of its members. provided with an upper lap extending in-Without limiting myself to the precise side of the shell of said foot member and 70 with ears, a hinge pin through all of said ears, a bushing in each of said ears on the 1. An artificial foot comprising, a foot toe member, a spring over said hinge pin a resilient pad on the bottom of said heel member, and a resilient means between the

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