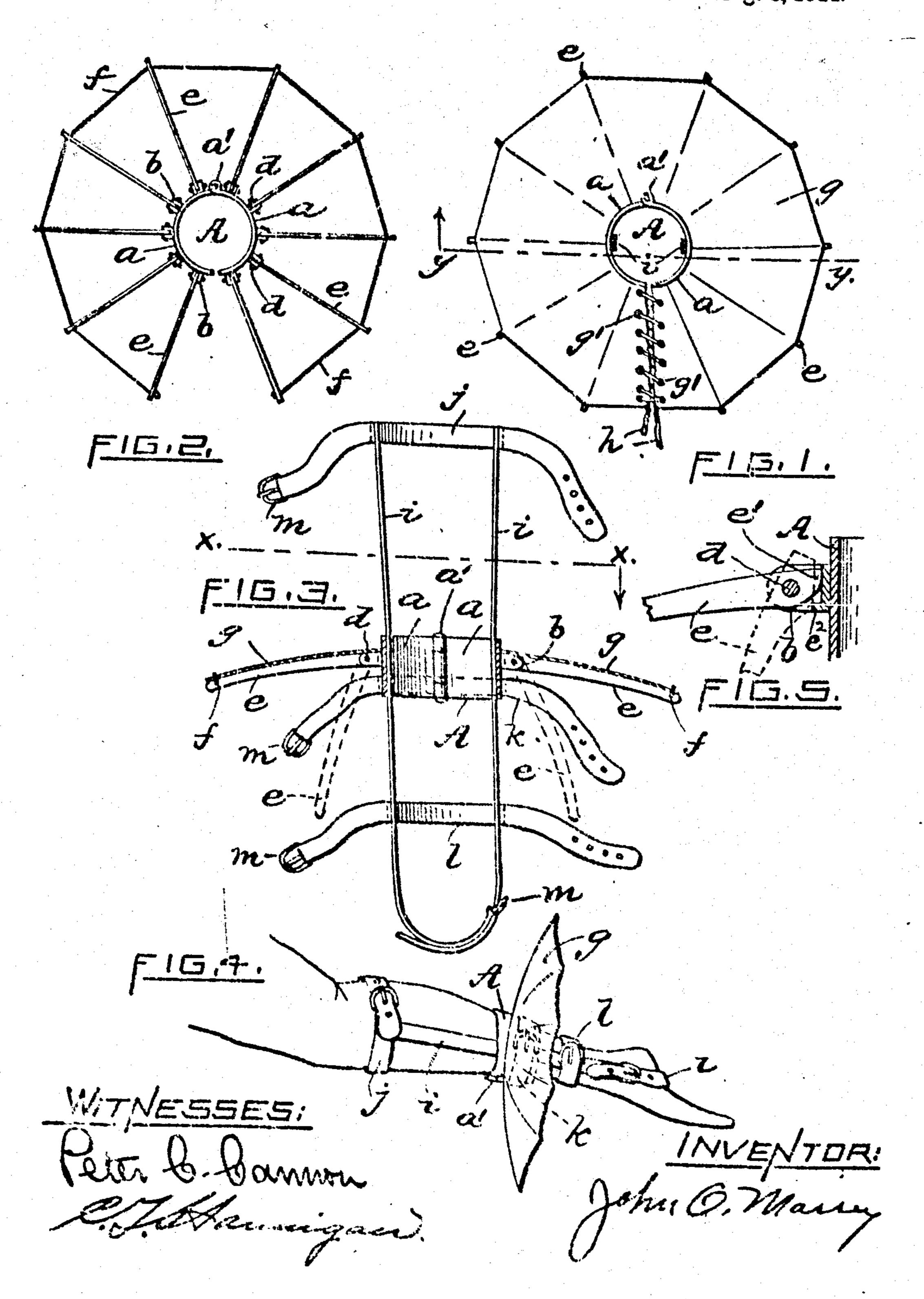
J. O. MASSEY.

ATTACHABLE SWIMMER'S DEVICE.

APPLICATION FILED JULY 26, 1910.

999,821.

Patented Aug. 8, 1911.



UNITED STATES PATENT OFFICE.

JOHN O. MASSEY. OF PROVIDENCE, RHODE ISLAND.

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Specification of Letters Patent.

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citizen of the United States, residing at the of this cover project from the free ends of city of Providence, in the county of Provi- the halves a, a and are provided with eye- 60 5 dence and State of Rhode Island, have in-hets gt to receive a lacing h for uniting the vented a new and useful Improvement in end portions of the cover together, after the Attachable Swimmers' Devices, set which | device has been mounted upon the leg of the following is a specification.

10 to be secured upon the lower portion of each the inner surface of each frame-half a, and leg of a swimmer, and the objects in view said straps project above and below the latare to provide means whereby an increase ter, as shown in Fig. 3. On the free upper of speed may be obtained by a person while

brella-shaped device designed to be secured said band upon the straps i, i. Each strap 20 ward in the water the device is caused to free ends tegether. -close to a collapsed condition upon that leg. To apply the device for use the strap j is and while the other leg is forced rearward i first secured below the knee, next, the frame the device on this leg is caused to be brought |f| is separated to permit the band Λ to encir-25 area of surface cover of the device to thrust | and the strap k used to secure the frameswimming, or to aid in making a treading movement in the water.

30. In the accompanying sheet of arawings. Figure 1 represents a plan section taken on line x.—x. of Fig. 3, showing my device in open position and the ends of its cover laced together, as after the device is seemred upon 35 the leg of a swimmer. Fig. 2 is a plan view of the collapsible frame of the device. Fig. 3 is a vertical sectional view of the device taken on line y.--y. of Fig. 1. Fig. 4 illustrates my device as applied to the leg of a 40 swimmer. Fig. 5 is a partial view, in actail, of one of the ribs of the frame.

Like reference characters in Ecate like

parts. The frame of my device consists of a thin 45 metal band A which is divided in halves | self all that is necessary to afford a great ina, a and hinged together, as at a^{2} . A series | crease of speed in swimming and without of U-shaped pieces b, b are made fast upon | any extra exertion required on the part of a each half of the band A, and said pieces are | swimmer, and at the same time a device that divided equidistantly apart throughout the 50 circle of the latter and each piece is provided with a pin connection d to receive the inner end of ribs e, e having each a shoulder | Furthermore, by my construction and aret to impinge against the bottom of each piece b, in the manner shown in Fig. 5, and | 55 the free or outer end of each rib e is per- | those desirons of learning the art of swimforated to receive a cord f. On this frame, ming, as it lessens fear of drowning, is light.

To all whom it may concern:

as described, is secured a cover g, of can-Be it known that I. John O. Masser, a vas or other suitable material, and the ends a swimmer, in the manner shown in Fig. 1.

My invention relates to a device adapted | Two straps i, i are secured centrally upon 65 ends of the straps i, i is secured a transverse swimming, and to aid a swimmer im making strap j: a second transverse strap k is se- 70 15 a treading movement in the water. cured on the frame-band A, and a third My invention consists of a small um- transverse strap I is secured at a point below near to each ankle of a swimmer, and so [i,j,k] and I is provided with a buckle m, or constructed that as one leg is brought for- any other suitable means, for securing its 75

to a full open condition and dispose a large | cle the lower portion of the calf of the leg 80 against the water by the swimmer and halves together, next, the strap'l is secured whereby increase of speed in obtained in upon the angle, and finally the straps i, i are secured together against the ball of the foot, in the manner shown in Fig. 5.

In the construction of the frame, the shoulder e1, formed on each rib c, is to overcome the rearward pressure of the device when open to its normal position in the water, as shown in Fig. 4, and at the same time 90 prevent the frame from turning inside out. A shoulder is also formed in the bottom of each U-shaped piece b, as at c2 in Fig. 5, in order to limit the closing movement of the device and prevent any of its ribs from 95 striking against the leg. as after the frame has collapsed to the position of parts indicated by dotted lines in Fig. 3.

By practical demonstration I provide a device of this character that contains in it- ... may be used to great advantage in making a 105 treading movement in the water in giving aid to support a person from drowning. rangement of parts I provide a device that may not only be used by swimmers, but also 110

and buoyant, and is a device that is inexpensive to manufacture.

What I claim and desire to secure by Let-

ters-Patent, is:-

In a swimming device, the combination with a metallic frame comprising the band A which is divided in halves to encircle the ankle and each half hinged together, as at a¹, a series of U-shaped members, as b, b, se10 cured to the band-halves and each member having a shoulder e², a frame comprising ribs e pivotally connected to the bifurcated portion of each member b and each rib provided with a shoulder, as e¹, to bear against the bottom of each member and thereby limit the expansive movement of the frame,

of a cover g secured to the ribs e and sur-

rounding said band-halves; the strap k for securing the band-halves together; the vertical straps i, i centrally secured on the 20 band-halves and having their lower free ends for connecting under the foot; the strap j secured to the upper ends of the straps i, and the free ends of said strap j, provided with fastenings for connecting 25 around the upper part of the calf of the leg.

In testimony whereof I have hereunto set my hand in presence of two subscribing wit

nesses.

JOHN O. MASSEY.

Witnesses:

PETER C. CANNON, C. T. HANNIGAN.