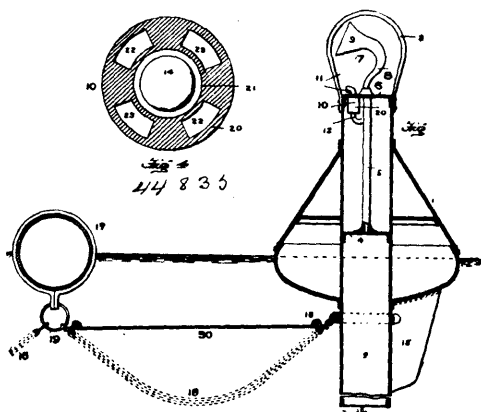


and suitable means for supporting said holder, in combination with a spring cultivator tooth, substantially as set forth. 4th. An elliptical or rounded washer J, inserted between and in combination with the pressure bar I, and the cultivator tooth, and means for holding them together, substantially as set forth. 5th. An elliptical or rounded washer J, in combination with the pressure bar I, tooth holder H, and means for holding them together, and tooth F¹, substantially as set forth. 6th. An elliptical or rounded washer J, in combination with a pressure bar I, spring G, and means for holding them together, and the tooth F, substantially as set forth. 7th. The socket arm E, and means for pivotally securing and supporting said arm and the tooth F¹, in combination with the holder H, pressure bar I, and means for applying pressure to the latter, substantially as set forth. 8th. The socket arm E, and means for pivotally securing and supporting said arm and the tooth F, and spring G, in combination with the pressure bar I, and means for applying pressure to the latter, substantially as set forth. 9th. The frame C, pivotally secured to the axle B, and the wheels A, and the shaft D, supported in said frame C, in combination with the socket arms E, teeth F¹, holder H, elliptical or rounded washer J, and pressure bar I, and means for applying pressure to the latter, substantially as set forth. 10th. The frame C, pivotally secured to the axle B, and wheels A, and the shaft D, supported by said frame C, in combination with the socket arms E, teeth F, springs G, elliptical or rounded washers J, and pressure bar I, and means for compressing the latter, substantially as set forth. 11th. A cultivator, consisting of one or more sections having teeth of graduated lengths, and means for connecting said teeth with a suitable support, the short teeth being provided with a spring G, and the longer teeth with a holder H, and a pressure bar I, and means for applying pressure to the latter, substantially as set forth. 12th. A cultivator, consisting of one or more sections, having teeth of graduated lengths, and means for connecting said teeth with a suitable support, the short teeth being provided with a spring G, and the longer teeth with a holder H, elliptical or rounded washers J, inserted between the springs G, and holder H, respectively, and the pressure bar I, and means for applying pressure to the latter, substantially as set forth. 13th. A cultivator, consisting of one or more sections, having socket arms E, and means for pivotally supporting said arms, teeth of graduated lengths, the short teeth being provided with a spring G, and the longer teeth with a holder H, and a pressure bar I, and means for applying pressure to the latter, substantially as set forth. 14th. A cultivator, consisting of one or more sections, having the socket arms E, and means for pivotally supporting said arms, teeth of graduated lengths, the short teeth being provided with a spring G, and the longer teeth with a holder H, elliptical or rounded washers J, inserted between the springs G, and holder H, respectively, and the pressure bar I, and means for applying pressure to the latter, substantially as set forth.

No. 44,835. Signal Buoy. (*Bouée de signal*.)



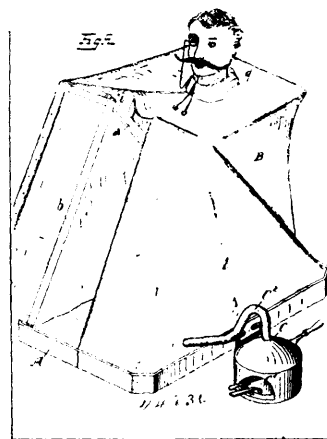
James Bigler, Newburg, New York, U.S.A., 6th December, 1893; 6 years.

Claim.—1st. The combination with a buoy, and a depending water tube containing a diaphragm, of a single fixed air tube opening through said diaphragm and provided with a sounding device, and a valved air supply chest connected to said air tube below the sounding device, as and for the purpose described. 2nd. The combination with a buoy, and a depending water tube, of a fixed diaphragm within said tube above the mean level of the water column therein, a single air tube provided at its upper end with a siren horn, and an air inlet chest connected to said air pipe below the siren horn, and containing an interior automatic valve, substantially as and for the purpose described. 3rd. The combination with a buoy and a depending water tube containing a diaphragm above the mean water level therein, of a single air tube fixed at its lower end and opening through said diaphragm and provided at its upper end with a siren horn, and a valved air chest, having an exposed inlet mouth and a pipe that is coupled to the air tube below the siren horn, substantially as described. 4th. The combination

with a buoy, of a depending tube, having a diaphragm, the single air tube, the siren horn mounted thereon, and the valve chest connected to the air tube and provided with the internal chamber having the valve seat, the valve seat thereon, and the isolated inlet and egress passages communicating with said internal chamber, and having connection, respectively, with said air inlet and exit ports of the valve shell, substantially as described. 5th. The combination with a buoy and a depending water tube containing a diaphragm, of an air tube connected with said diaphragm, a siren horn carried by the air tube, and an automatic inlet chest connected to said air tube at a point between said diaphragm and the siren horn, for the purpose described, substantially as set forth. 6th. The combination with a buoy, the water tube having its ends extended through said buoy and provided with the fixed support at its upper end and with a diaphragm at an intermediate point of its length, an air tube connected at its lower end to said diaphragm and stayed at its upper end by the fixed support, the siren horn fixed to the upper end of said air tube, and the valved air inlet chest fixed to the support, and having a discharge pipe coupled to the air tube at a point between the siren horn and the diaphragm, substantially as and for the purpose described. 7th. The combination of a buoy, a depending water tube containing a diaphragm, a rudder fixed to the buoy and a tube on one side thereof, an air tube connected to said diaphragm, a siren horn communicating with the air tube and having its open mouth facing toward the side of the buoy to which the rudder is secured, and a valved air chest coupled to the air tube below the siren horn, substantially as and for the purpose described. 8th. The combination of a buoy, a water tube having its ends extended through said buoy and provided with a diaphragm, the open hood or guard fixed to the upper end of said water tube, an air tube connected at its lower end to the diaphragm, a siren horn fixed to the upper end of the air tube and arranged wholly within the guard, a valved air chest also arranged within the guard and connected to the air tube below the siren horn, and a rudder fixed to the buoy and water tube on the side toward which faces the open mouth of the siren horn, substantially as and for the purpose described.

No. 44,836. Folding up Steam Bath.

(*Bain à vapeur pliant*.)



Gustav Heinrich Heinsius von Mayenburg, of Dresden-Neustadt, in the Empire of Germany, 6th December, 1893; 6 years.

Claim.—1st. A frame for steam baths, consisting of the bars *a*, the doors *b*, the cover racks *i*, which hold the cloth cover, and which are adjustable through the support bars *m*, and the cross-bars *k*, which can be connected by means of the socket *l*, these parts folding together flat in consequence of the employment of the hinges *g*, *n*, *o*, *p*, as and for the purpose set forth. 2nd. In a steam bath frame, the arrangement of a trunk-shaped under-part *A*, which by means of the hinges *h*, is joined to the arms *c*, of the bars *a*, holding the folded up frame, as well as all bathing accessories, as described. 3rd. In the frames of steam baths, the arrangement of doors *b*, which are at the top joined to the frame by the double joint *f*, *q*, and at the lower part turning with their pivots *e*, in the sockets *d*, of the under-part *A*, thus enabling a convenient entry into the apparatus, as set forth.

No. 44,837. Sign. (*Enseigne*.)

Alonzo L. Brumfield, Paterson, New Jersey, U.S.A., 6th December, 1893; 6 years.

Claim.—1st. An illuminating sign consisting of a box, opaque sign plates secured thereto, and having blank letter spaces, a series of prismatic tubes adapted to be revolved between said sign plates, and means for revolving said series of tubes, substantially as set forth. 2nd. An illuminating sign consisting of a box, opaque sign plates secured thereto, and provided with blank letter spaces, a series of transparent tubes adapted to be revolved between said sign