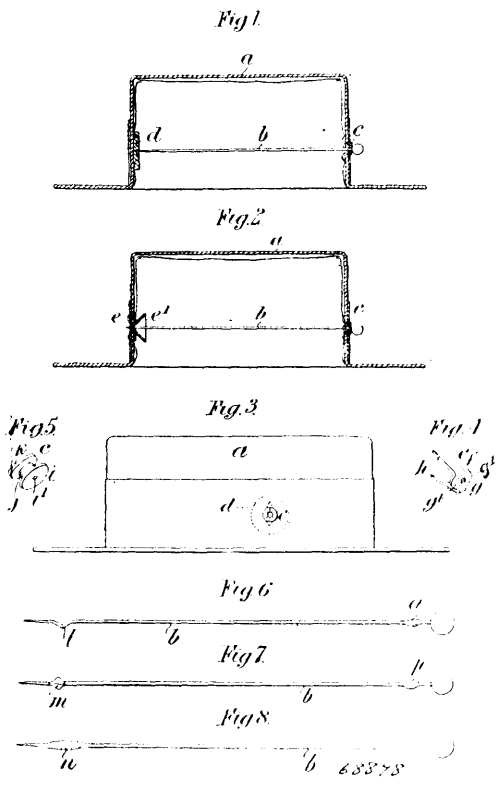
at an angle to the vertical and horizontal planes and provided with a cam surface adapted to be contacted by the coupling knuckle while it is being swung into its locking position and cause the pin to be elevated, substantially as described. 3rd. In a car coupler, the combination of a draw bar head, a coupling knuckle provided with a pulling portion and a tail portion pivotally mounted within the draw bar head, a locking pin arranged in the draw bar head at an angle to the vertical plane provided with a shoulder portion adapted to lock with a portion of the draw bar head when the parts are in their locked position, and a cam portion on such locking pin adapted to be contacted by the tail of the knuckle during the swinging of the knuckle into its locking position and cause the pin to be elevated, substantially as described. 4th. In a car coupler, the combination of a hollow draw bar head, a knuckle provided with a pulling portion and a tail portion pivotally mounted so as to swing in the draw bar head, a locking pin arranged in the draw bar head at an angle to the vertical plane and provided with a recess arranged to span a portion of the draw bar head and lock the pin in its locking position, and a cam surface on one of the parts—the tail of the coupling knuckle or the locking pin—so arranged that the locking pin is lifted and unlocked while the knuckle is being swung into its locking position, substantially as described. 5th. In a car coupler, the combination of a draw bar head, a coupling knuckle provided with pulling and tail portions, a cam portion arranged at the end of the tail portion, a locking pin arranged in the draw bar head at an angle to the vertical plane so as to be contacted by the coupling knuckle and lock the parts firmly in coupling position, a recess arranged in the coupling pin at or near its upper portion so as to span the upper web or flange of the draw bar head and further hold the parts in locked position, and a cam portion on one side of the locking pin arranged to be contacted by the cam on the end of the coupling knuckle while it is being swung into its locking position so as to unlock and lift the coupling pin during such movement, substantially as described. 6th. In a car coupler, the combination of a hollow draw bar head, a coupling knuckle of the N. C. B. type provided with a face on its tail portion arranged at an angle to the vertical plane and a cam c^2, a locking pin arranged in the draw bar head at an angle to the vertical plane so as to contact the angular face of the tail of the coupling knuckle, a recess in the upper part of the locking pin adapted to span a portion of the upper part of the draw bar and assist in holding the locking pin in its locked position, a cam D^1 on the coupling pin arranged to be contacted by the cam on the tail of the coupling knuckle while it is being swung into its locking position so as to lift and unlock the coupling pin, substantially as described.

No. 68,878. Hat Fastener. *(Attache de chapeau.)*

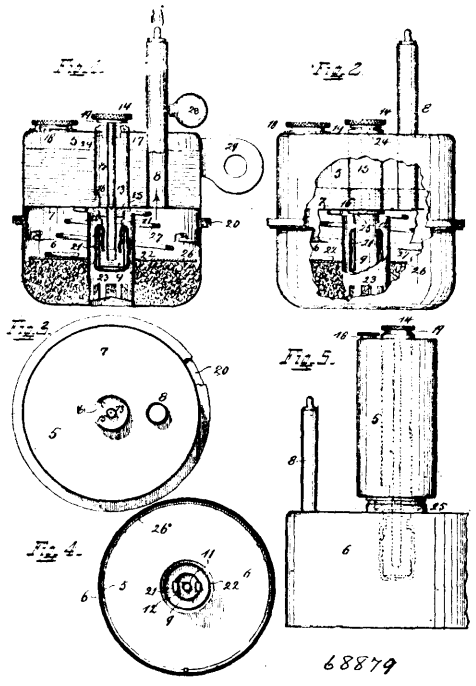


Henry Masters, London, England, 2nd October, 1900; 6 years. (Filed 15th September, 1900.)

Claim.—1st. An improved fastener for ladies' hats, bonnets and the like, consisting of a pin, an eyelet in the hat or bonnet through which the pin is passed and means for receiving the point of the pin, substantially as hereinbefore described. 2nd. A fastener for ladies' hats, bonnets and the like, consisting of a pin, an eyelet in the hat or bonnet through which the pin is passed and of a cork disc secured inside the hat at a point opposite the eyelet into which the pin is inserted, substantially as described. 3rd. A fastener for ladies' hats, bonnets and the like, consisting of a pin, an eyelet in the hat or bonnet through which the pin is passed, and a bell mouthed eyelet inserted inside the hat at a point opposite the eyelet through which the pin is passed, substantially as hereinbefore described. 4th. In fasteners for ladies' hats, bonnets and the like, the employment of the improved pins having the cranked or thickened portions substantially as hereinbefore described and illustrated respectively in figures 6, 7 and 8 of the accompanying drawing. 5th. In fasteners for ladies' hats, bonnets and the like, the employment of the eyelets formed substantially as hereinbefore described and illustrated respectively in figures 4 and 5 of the accompanying drawing

No. 68,879. Acetylene Gas Generator.

(Générateur de gaz acétylène.)



Edward F. Smith, Cincinnati, Ohio, U.S.A., 2nd October, 1900; 6 years. (Filed 3rd July, 1900.)

Claim.—1st. In an acetylene gas generator, the combination of a water receptacle and a carbide receptacle, the two detachably connected, the latter receptacle below the former, a tube 22 projecting upwardly from the bottom of the carbide receptacle, a cup 9 depending from the bottom of the water receptacle into this tube, outlet openings in this latter and in cup 9 and pipe 11 supplying this latter from the water receptacle. 2nd. In an acetylene gas generator, the combination of a water receptacle, and a carbide receptacle a diaphragm 7 separating the two, a cup 9 secured to and depending from the underside of the latter into the carbide receptacle and provided with outlet openings 12, a compartment 15 set off in the water receptacle and communicating therewith by opening 16, a pipe 11 connecting compartment 15 with cup 9, being secured to diaphragm 7 and terminating above bottom of the former and a vent opening 17 being at all times during operation in constantly open communication with the generating compartment and permitting escape of gas at excessive pressure. 3rd. In an acetylene gas generator, the combination of a receptacle for water and one for carbide, a diaphragm between the two, a cup 9, secured to and depending from the underside of the latter into the carbide receptacle, provided with lateral outlet openings 12, a compartment set off in the water receptacle and communicating therewith by an opening 16, a pipe 11 attached to diaphragm 7 and connecting the lower part of compartment 15 with the lower part of cup 9, and wicks supported in openings 12 depending into cup 9 and reaching outside into the carbide receptacle. 4th. In an acetylene gas generator, the combination of a receptacle for water and one for carbide, a diaphragm separating the two, a cup 9 open to the carbide receptacle, a compartment 15 set off in the water