

# PATENT SPECIFICATION

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## PROVISIONAL SPECIFICATION.

### Improvements in or relating to Fountain or Reservoir Pens.

We, ERIC ERNEST SAMUEL WADE (British), of 13, Hope Street, Liverpool, in the County of Lancaster, and THE LANG PEN COMPANY LIMITED, (British Company) of 13, Hope Street, Liverpool, in the County of Lancaster, do hereby declare the nature of this invention to be as follows:—

This invention relates to sac self-filling fountain or reservoir pens, and has for its object to provide a new or improved mode of mounting or pivotally carrying the sac actuating lever.

According to our invention, said sac actuating lever is pivotted or fulcrummed in a bridge member which transversely spans the customary longitudinal slot in the pen body or barrel wherein said lever operates.

In one mode of embodiment, said bridge is formed out of a single strip of sheet metal which, when in situ, is of channel formation and comprises a base portion

disposed within the pen barrel and projecting on either side of said barrel slot, portions extending through the slot and lateral wing pieces positioned in countersunk or recessed parts formed in the exterior wall of the pen barrel and adjacent to said slot.

The lever is suitably fulcrummed in said bridge, preferably on a transverse pin carried thereby, the point of pivoting being situated at one side in order to permit of the lever being raised to an upright position.

For the purpose of holding the lever in its closed position, there may be provided a U shaped member fitting in the barrel slot and adapted to grip the sides of said lever.

Dated this 18th day of January, 1929.

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Agent for the Applicants.

## COMPLETE SPECIFICATION.

### Improvements in or relating to Fountain or Reservoir Pens.

We, ERIC ERNEST SAMUEL WADE (British Nationality), of 13, Hope Street, Liverpool, in the County of Lancaster, and THE LANG PEN COMPANY LIMITED (British Company), of 13, Hope Street, Liverpool, in the County of Lancaster, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to sac self-filling fountain or reservoir pens of the kind in which a presser bar is used for causing deflection or compression of an elastic sac in the ink-charging operation, such presser bar—and so the sac—being actuated by means of a lever pivotally mounted within a longitudinal slot in the pen body or barrel and an extremity whereof constitutes a finger hold portion whereby the lever may be actuated in the filling operation.

The present invention provides a new or improved mode of mounting or pivotally carrying said sac-actuating lever.

According to our invention, said sac-actuating lever is pivotted or fulcrummed in a bridge member which is disposed in and transversely spans the customary longitudinal slot in the pen body or barrel wherein the lever is normally housed; said bridge member comprising a base portion located within the pen barrel and projecting on either side of said barrel slot, portions extending through the slot, and lateral wing pieces positioned in countersunk or recessed parts formed in the exterior wall of the pen barrel adjacent to the slot. Preferably, said sac-actuating lever is fulcrummed on a transverse pin carried by said bridge member.

For the purpose of holding the lever in its closed position, there may be fitted in the barrel slot a "U" shaped member adapted to grip the sides of the lever.

We will further describe our invention with the aid of the accompanying sheet of explanatory drawings which illustrate, by way of example only, one mode of embodying same.

[Price 1/-]

In said drawings:—

Fig. 1 is a fragment of a sac self-filling fountain or reservoir pen provided with our improvements, and Figs. 2 and 3 are transverse sections taken as on lines A—A and B—B, respectively, of Fig. 1.

In these views, *a* indicates the body or barrel of the pen, *b* the sac for containing the ink, *c* the presser bar which is adapted to compress the sac in the ink-charging operation, *d* the sac-actuating lever for operating said presser bar *c*, *a'* the longitudinal slot in the pen body or barrel within which the sac-actuating lever *d* is normally housed or positioned, and *d'* the finger grip portion of the sac-actuating lever: all of the said parts being as customarily employed in reservoir pens of sac self-filling type.

Said sac-actuating lever *d* is pivoted or fulcrummed in a bridge member which transversely spans the barrel slot *a'* wherein the lever is disposed. Said bridge member is preferably created out of a single strip of sheet metal, as shown, and comprises a base portion *e'* disposed within the pen barrel and projecting on either side of the barrel slot *a'* to provide a pair of shoulders *e''* which bear against the inner wall of the barrel, portions *e'''* extending through the barrel slot *a'*, and lateral wing pieces *e''''* which are entered into recesses *a''* formed in the exterior wall of the pen barrel adjacent to the slot *a'* and effectively hold the bridge member in position.

The sac-actuating lever *d* is suitably pivoted or fulcrummed in said bridge member, preferably—as illustrated—on a transverse pin *f* carried by the lever and projecting into aligned openings in portions *e''* of the bridge member; but, alternatively, short pins or projections, or the like, may be fixed, stamped, or otherwise provided on one of the components and adapted to engage in appropriately located apertures or recesses in the other of the components for the purpose of effecting pivotally connection of these parts.

It is to be noted that the point of pivoting of lever *d* is situated as near to the bottom of bridge member as is practicable and also towards one side thereof in order that the lever shall fit snugly in the barrel slot *a'*. Further, the base portion *e'* of the bridge member terminates near the point of pivoting so as to permit of the turning movement of lever *d* to the position shown by the dotted lines Fig. 1 in the ink-charging operation.

For the purpose of holding or normally maintaining said sac-actuating lever *d* within the longitudinal barrel slot *a'*, there is provided a retaining device of known construction, comprising a “U”

shaped member *g* fitted in said slot and adapted to frictionally engage the sides of the lever: projections *g'* and openings (or depressions) *d'* respectively provided on member *g* and in lever *d* assist, by engagement, in holding said lever until wilfully actuated in the ink-charging operation. Any other suitable known means for normally retaining said sac-actuating lever *d* within barrel slot *a'* may, however, be employed.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A sac self-filling fountain or reservoir pen of the kind specified, wherein the sac-actuating lever is pivoted or fulcrummed in a bridge member which is disposed in and transversely spans the customary longitudinal slot in the pen body or barrel wherein the lever is normally housed; said bridge member comprising a base portion located within the pen barrel and projecting on either side of the barrel slot, portions extending through said barrel slot, and lateral wing pieces positioned in countersunk or recessed parts formed in the exterior of the pen barrel adjacent to said barrel slot.

2. A sac self-filling fountain or reservoir pen as claimed in the preceding Claim, wherein the pivotal connection of the sac-actuating lever with said bridge member is effected by means of a pin, or projections, or the like, carried by or provided on said lever and engaging in aligned openings or recesses formed in the bridge member.

3. A sac self-filling fountain or reservoir pen as claimed in Claim 1, wherein the pivotal connection of the sac-actuating lever with said bridge member is effected by means of a pin, or projections, or the like, carried by or provided on said bridge member and engaging in aligned openings or recesses formed in the lever.

4. In a sac self-filling fountain or reservoir pen as claimed in any one of the preceding Claims, a bridge member formed out of a single strip of sheet metal; substantially as hereinbefore described and illustrated in Figs. 1 and 2 of the accompanying drawings.

5. A sac self-filling fountain or reservoir pen substantially as hereinbefore described and illustrated in the accompanying drawings.

Dated this 14th day of October, 1929.

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Fig. 1.

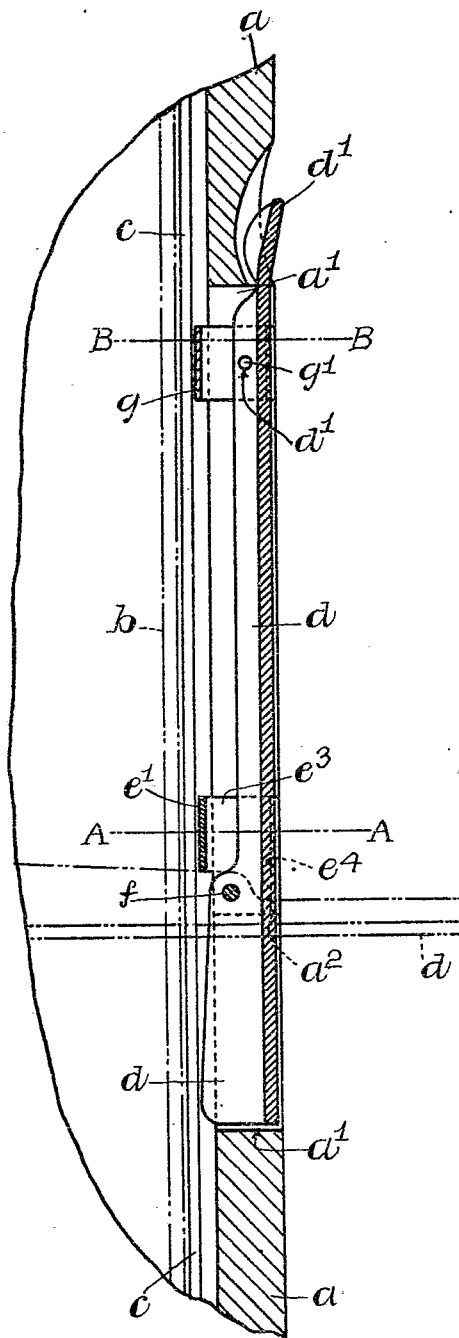


Fig. 2.

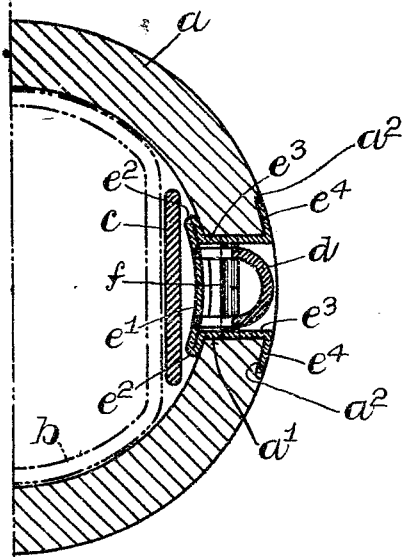
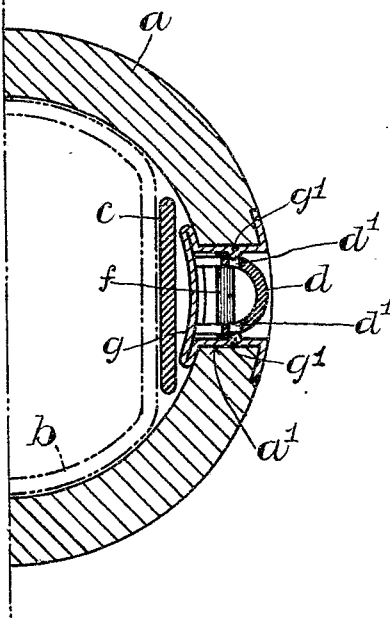


Fig. 3.



[This Drawing is a reproduction of the Original on a reduced scale.]