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COMPLETE SPECIFICATION

Improvements in Nib Sections for Fountain Pens

We, MABIE TODD & COMPANY LIMITED, of 41, Park Street, Mayfair, London, W.1, a Company organised under the laws of Great Britain and Northern Ireland, and EDWARD STEPHEN SEARS, of the Company's address, a British Subject, do hereby declare the invention, for which we pray that a patent may be granted to us and the method by which it is to be performed to be particularly described in and by the following statement:—

The Complete Specification of Patent No. 656,673 describes a nib section for a fountain pen comprising a tubular holder, a feed bar and nib having a smooth shank, said holder having a counter-sunk front end to fit a corresponding shoulder formed on the feed bar intermediate its ends, a shoulder on the nib formed by a reduction in the size thereof, the holder and the feed bar being provided with co-operating screw threads at their rear ends to clamp the nib in place with the shoulder thereon between the shoulder on the feed bar and the countersunk front end of the holder.

The prior Specification describes in detail one form of nib section, wherein a longitudinal ink feed channel is formed along the top of the feed bar. In order to reduce the likelihood of ink leaking by passing from the underside of the nib round the edge thereof between the feed bar and holder, it proposes to form a recess either in the holder or the feed bar to receive the shank of the nib. The formation of such a recess is a somewhat troublesome operation, and, even where the recess is formed, it sometimes proves difficult to eliminate the ink leakage entirely.

The object of the present invention is to reduce the danger of ink leakage round the edge of the nib whether or not the holder or feed bar is recessed in the manner suggested. This is achieved by boring longitudinally through the feed bar, and forming an ink channel along an inner core member which fits inside the said bore, a slot or opening being provided in the feed bar to give the ink access to the underside of the nib: the slot or opening lies wholly at the front end of the

underside of the nib, and preferably wholly in front of the shouldered part of the nib.

The invention is more particularly described with reference to the accompanying drawings, wherein:—

Fig. 1 is a side elevation showing one form of nib section according to the invention mounted inside a pen barrel, but without the inner core member;

Fig. 2 is a longitudinal section of Fig. 1; Fig. 3 is a view of the under side of the feed bar;

Fig. 4 is a part view as in Fig. 3 showing the nib in position;

Fig. 5 is a cross-section on the line V-V of Fig. 2, but showing the inner core member in position;

Fig. 6 is a longitudinal section of the feed bar; and

Fig. 7 is a plan of the inner core member.

The nib section comprises four components namely a holder 8, a feed bar 9, an inner core member 30 and a nib 10, the feed bar 9 being screwed into the holder 8 by means of a screw threaded part 16 on the feed bar which engages an interiorly screw threaded portion on the holder as shown in Fig. 2. The nib 10 is held in position by a shoulder 25 on the nib being clamped between a shoulder 22 on the feed bar, and the front 14 of the holder. The nib section is adapted to be inserted into the barrel A of a pen.

The feed bar 9 is not grooved or channelled in its upper surface but is bored axially as shown at 31, the front of the bore being cone-shaped as indicated in the drawings. A slot 32 extends upwards from the bore 31 to provide access between the said bore and the under side of the nib.

Into the bore 31 is inserted frictionally the inner core member 30 which is coned at the front end to correspond with the bore; the core member 30 is provided at the top with a longitudinal ink feed channel 23, this channel extending far enough forward to come below the slot 32, but stopping short of the front end of the member.

As will be seen from Figs. 2, 3, 4 and 6, the bore 31 passes through part of the lower

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surface 33 of the feed bar, and the feed bar on either side of the bore is slotted at 19 to produce baffles in the manner shown in the drawings.

5 The end of the feed bar 9 remote from the nib is extended beyond the threaded portion 16 to form a plain reduced cylindrical portion 34 ending in a bead 35 which receives the open end of an ink sac. The end of the bore 10 31 is countersunk at 36 to facilitate access of ink to the channel 23.

What we claim is:—

1. An improvement or modification of the nib section for a fountain pen as claimed in 15 the specification of Patent No. 656,673, comprising an inner core member fitted within a longitudinal bore in the feed bar and having an ink channel, there being a slot or opening through the feed bar pro- 20 viding a passage for the ink between the ink

channel and the underside of the nib.

2. A nib section as claimed in claim 1, wherein the top of said slot is wholly at the front end of the underside of the nib.

3. A nib section for fountain pens accord- 25 ing to claim 2, wherein the top of the slot is wholly in front of the shouldered part of the nib.

4. A nib section for self-filling fountain pens constructed according to any of the 30 preceding claims having an ink sac and having the end of the feed bar remote from the nib extended beyond the holder, the end of the sac being fitted over the end of the feed bar. 35

5. A nib section for fountain pens substantially as described with reference to the accompanying drawings.

ERIC POTTER & CLARKSON.

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