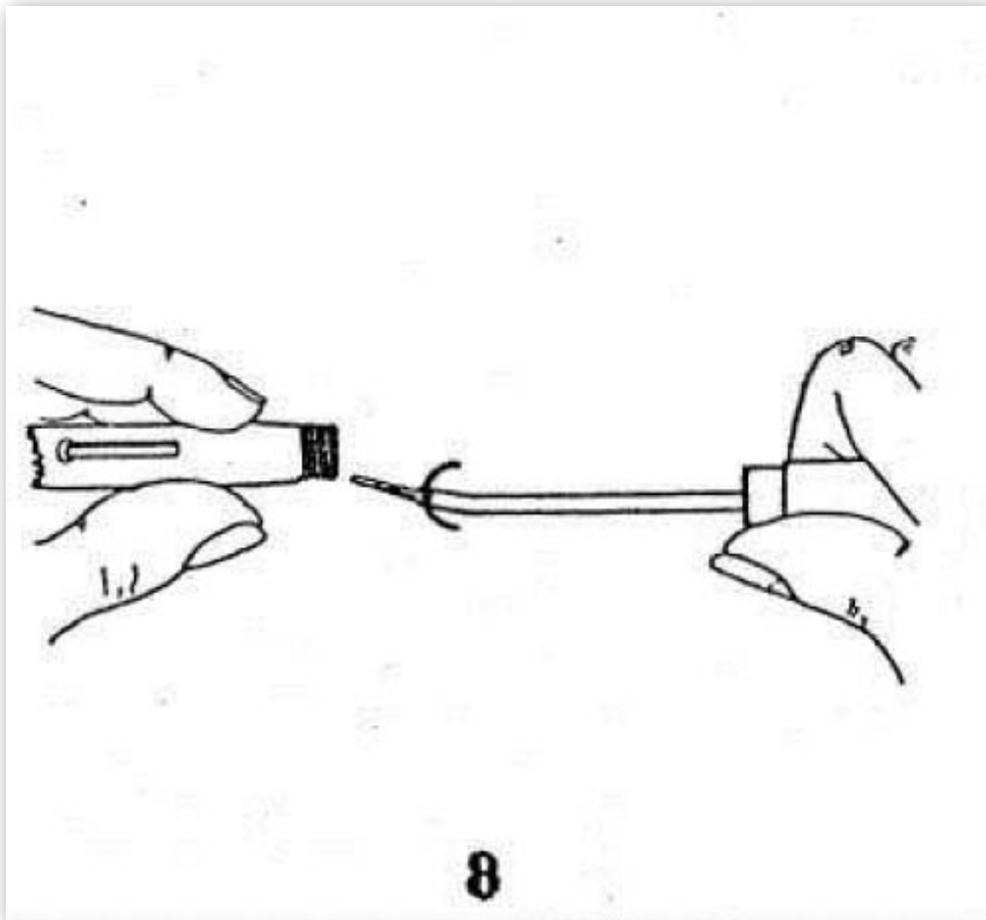


LEVER ASSEMBLY

(A) To assemble the lever which is held in place by a ring inside the barrel:

- Place a wire lever ring thru the hole in the lever, then place the large end of the lever in the end of the lever assembly tool. The end of the wires should point back toward the tool handle. (Illustration No. 8).
- With this tool. thread the lever thru the slot in the barrel from the inside. When the end of the lever extends thru the slot. grasp it with thumb and finger and remove the tool.
- Spring the lever ring into position in the groove inside the barrel by moving the lever toward the groove. A hook shaped tool, such as the bar puller, may be used to force the ring into the groove should it fail at first to snap into place.



(B) To assemble the lever which is held in place by a wire run thru the barrel walls:

This style lever is assembled in the barrel after the bar has been put in place.

- Lay the lever. finished side up, on the bar in the barrel slot.
- Thread a piece of lever wire thru the barrel drillings and the lever.

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The pressure of the bar against the lever should hold the lever firmly in place but the lever should not push the bar away from the inside barrel wall.

(a) To test for play: Hold the barrel with the lever down. Pull down the lever about 1/16 of an inch (3mm.) then release. If the lever snaps back into place and the bar does not hang away from the inside wall of the barrel the lever adjustment is correct.

(b) If the lever has play, that is, hangs down, remove the lever and increase the width of the slot in the thick end.

(c) If the lever presses the bar too far away from the barrel, decrease the width of the slot.

(3) Pull the wire out slightly and cut it off close to the barrel with the side cutting pliers. The wire should be cut short enough so neither end extends out of the barrel when it is pushed back into place.

(4) Fill in holes with wax the same color as the barrel.

ADJUSTMENT OF LEVER-TYPE FILLING MECHANISM

ADJUSTMENT OF THE BAR AND LEVER:

The bar and lever are in proper adjustment when the lever, in a raised position, is stopped by the bar at a right angle with the barrel.

Should the bar stop the lever before it is at a right angle, the bar should be pushed farther into the barrel.

If the lever goes beyond a right angle the bar has been pushed too far and should be pulled back until the lever is again at right angles.

Should the lever turn over, straighten the bar in the barrel so the lever will strike the stop.

The lever must be closed when making adjustments on the bar.

BAR ASSEMBLY

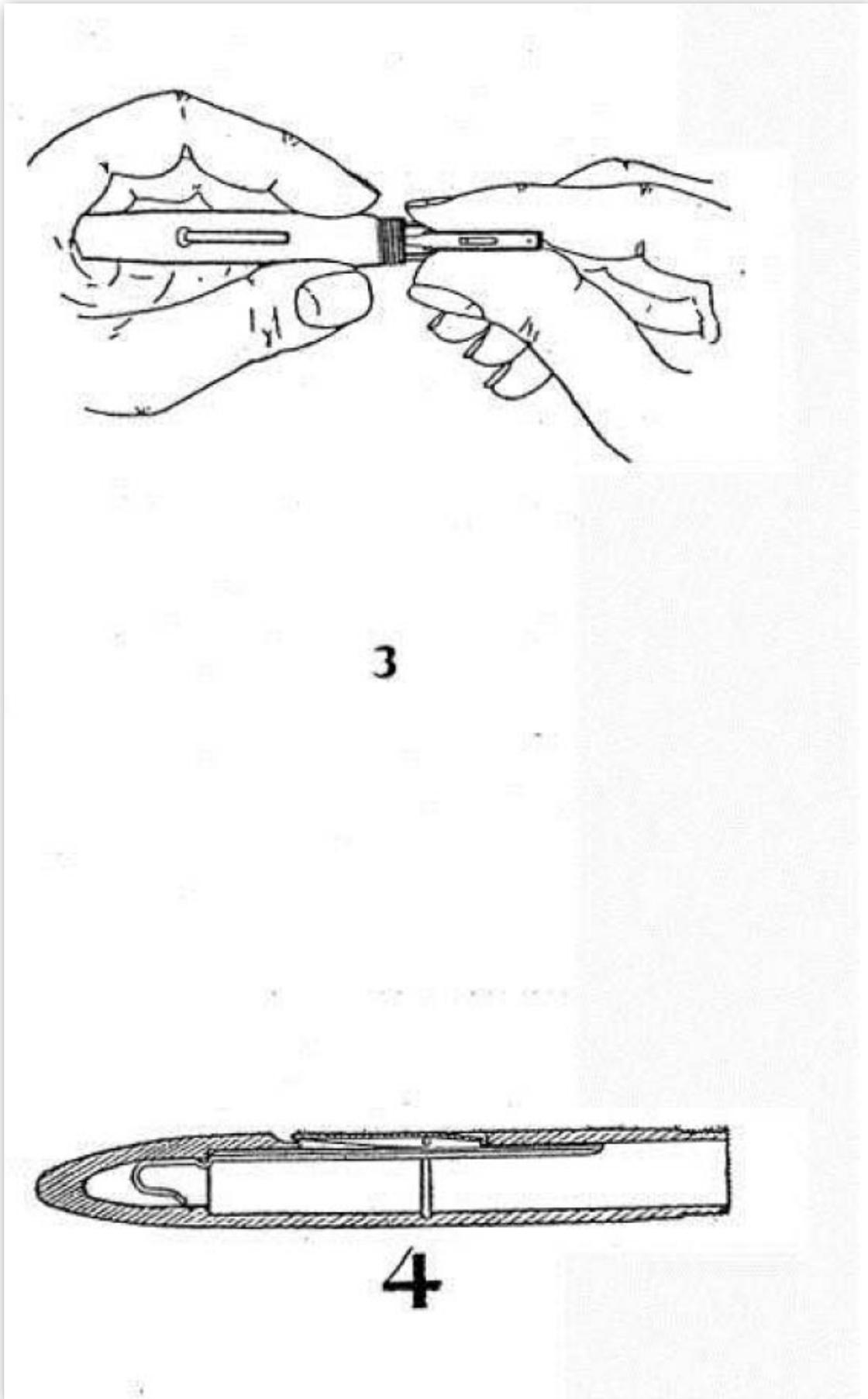
The two-piece bar with collar is used in all fat end barrels and Streamlined Balance barrels with solid ends.

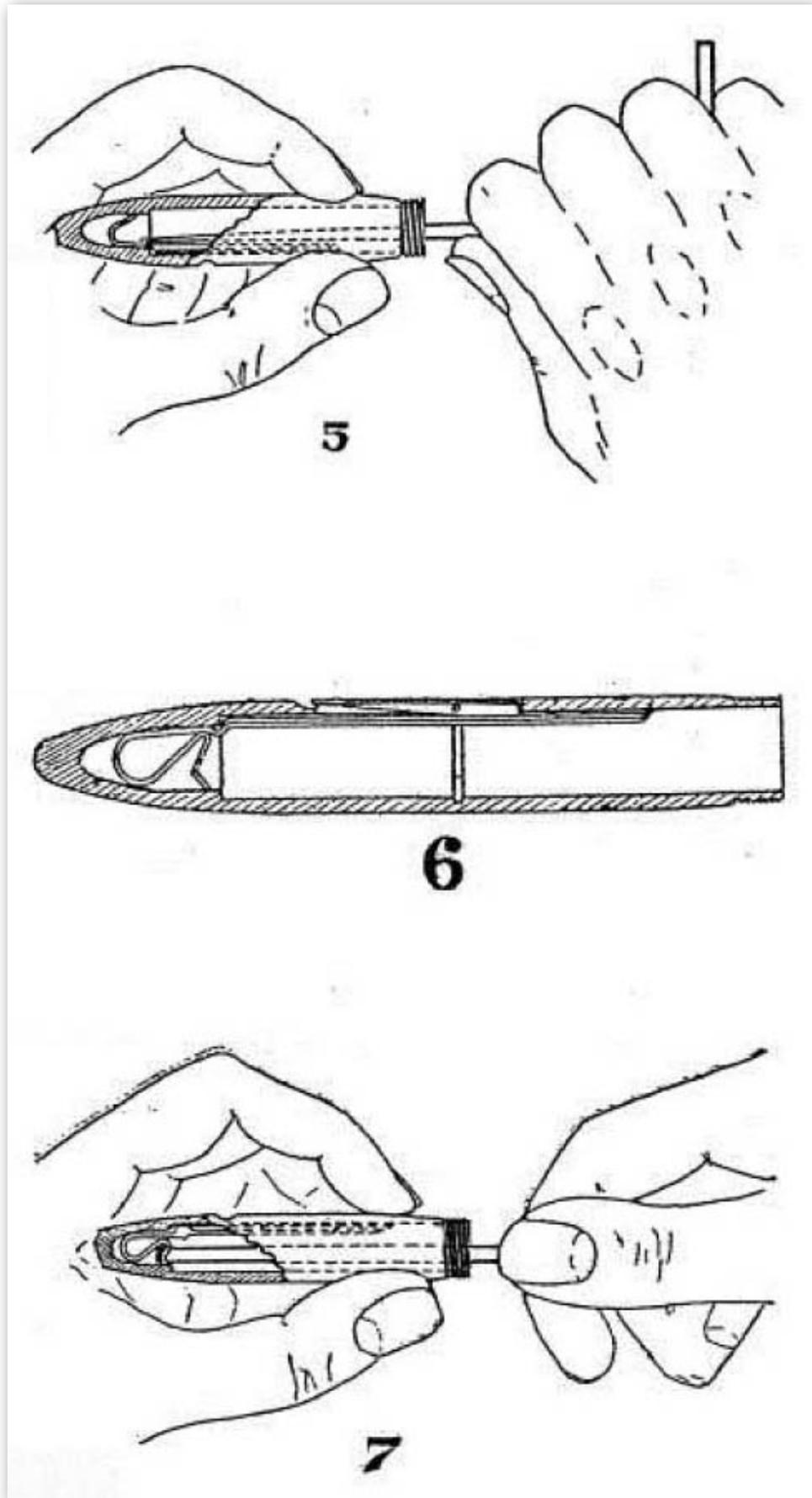
To remove this bar, use the bar puller with the solid hook.

To Assemble Grasp collar as illustrated (No. 3) and start it into barrel with bar in line with lever slot. Use bar pusher to push bar into place. Test for correct position as outlined above.



!. The embossed, one-piece bar with single hook (Illustration No. 4) is used in regular and small size, Balance barrels with hollow ends.





To remove this bar, use the two-pronged hook as illustrated. (Illustration No. 5).

To place this bar in a barrel, first place it on the bar pusher, hold it down with the fore-finger and push into

position.

Test as outlined above.

- i. The embossed, one-piece bar with double reverse hook (Illustration No. 6) is used in the large size Balance barrels with hollow ends.

To remove this style, use the two pronged hook as illustrated. (Illustration No. 7)

Place this bar in a barrel, using the same method as on the bar above except it is necessary to push on the reverse hook to set the bar in place.

Test same as the above bars.

IMPORTANT: Any style bar must be straight when assembled and must lie close against the inside barre wall. It must not press on the sac fur such pressure will cause a pen to flow unevenly.

DISMANTLING THE VACUUM-FIL PLUNGER TYPE PEN

(1) Empty writing fluid and rinse pen by filling with cold water.

{2) To Remove Section:

Wrap two thicknesses of rubber inner tube around section, grip with section removing pliers and turn to LEFT. (Illustration No. 9)

(3) To Remove Plunger:

(a) Unscrew barrel cap and pull out plunger. Loosen locknut with wrench and remove barrel cap. (Illustration No. 10)

Use the slotted screwdriver for WASP Vacuum-Fil pens. (Illustration No. 11)

(b) Push plunger back into barrel and with plunger removing tool push thru packing washers.

ASSEMBLING THE WASP VACUUM FIL, PLUNGER TYPE PEN

(1) To Replace Plunger:

(a) Place plunger assembly lead on threads of plunger rod and push into barrel from section end. (Illustration Nos. 12 & 13)

(b) Screw locknut on plunger rod. Then screw on barrel cap. Tighten locknut against barrel cap with wrench. (Illustration No. 10)

