

<h1>Horologix</h1>		<p>The place to come for all your Bulle and Eureka restora- tion parts.</p>	<p>Contact Peter Smith Telephone 01454-880825 Or Mobile 07969-773480 Email peter_smith@horologix.com</p>
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Bulle Clock Serial Number 193505

Restoration of Bulle Clock Serial Number 193505

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*Photos by kind permission of the
owner*

*This is a short clockette on a round
wood base. The dial does have some
marks but these will not detract too
much from the general look of the
clock once cleaned.*

*It all looks to be reasonable shape
and hopefully won't prove to be too
much of a problem.*



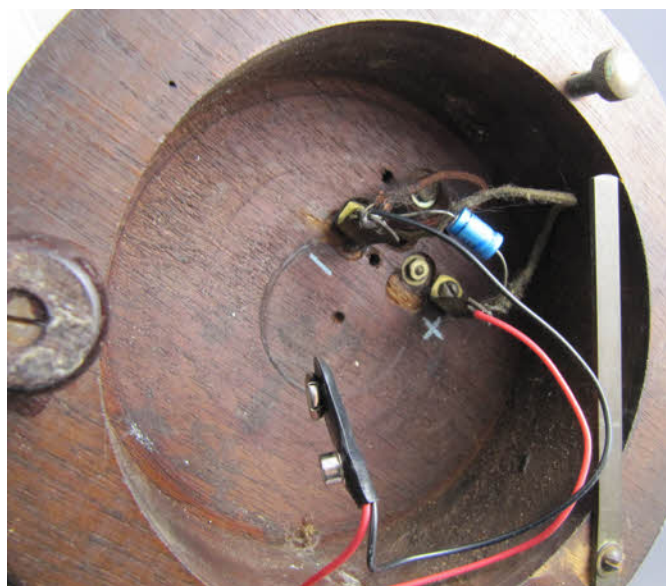
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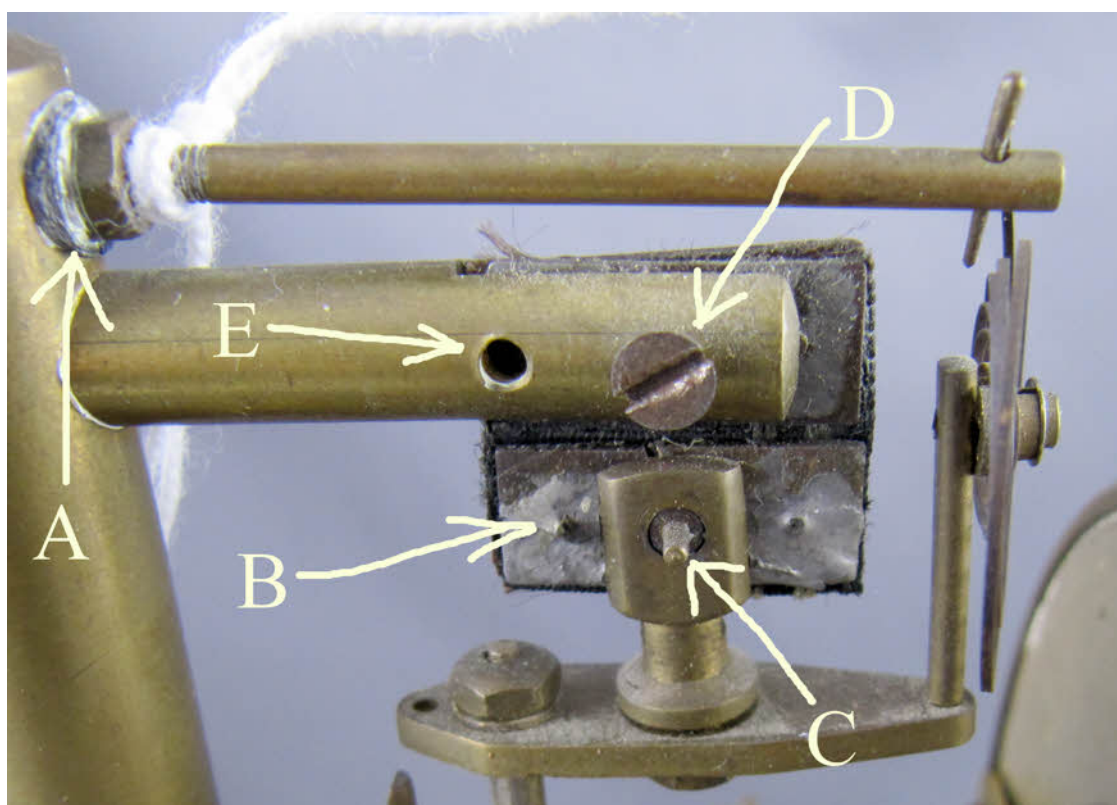
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The top and underside of the base. At first glance the marks on the top looks just like dust but they are in fact small pits in the surface layer which means that the top at least will need to be cut back and French polished. The sides will probably come up OK with some wax and wire wool. It is always best to try and leave as much of the original as possible. The underside shows the extra wiring added at some time in it's life. All this will be removed and put back to its simple manufactured state.



This photo shows

A) White residue from "Brasso".

B) Badly soldered up suspension.

C) Missing nut from lower suspension block.

D) Wrong top suspension screw..

E) Missing blued suspension positioning and retaining screw.

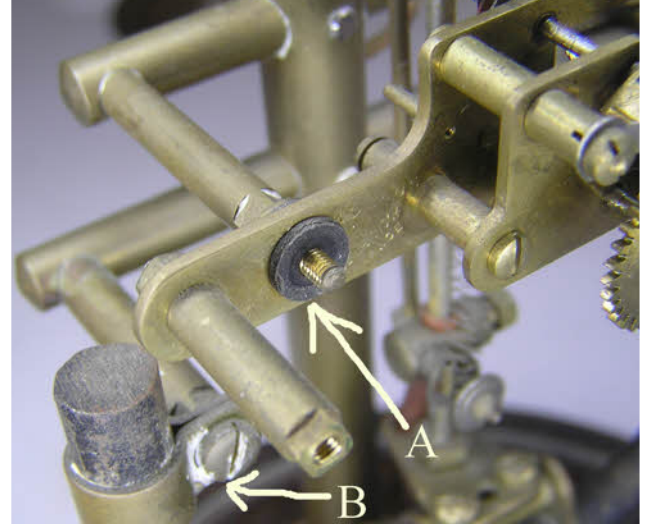
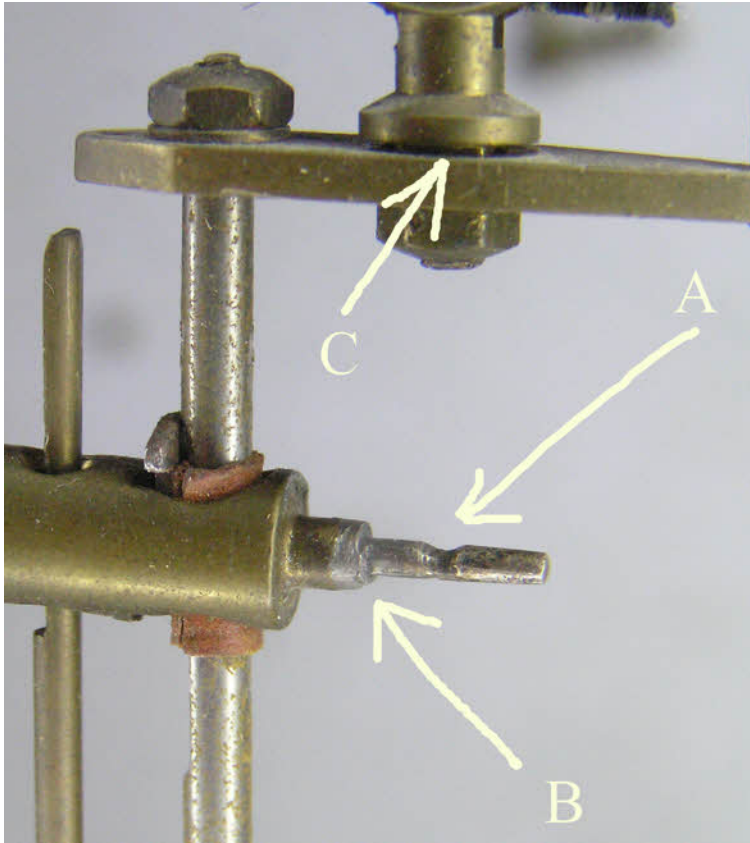
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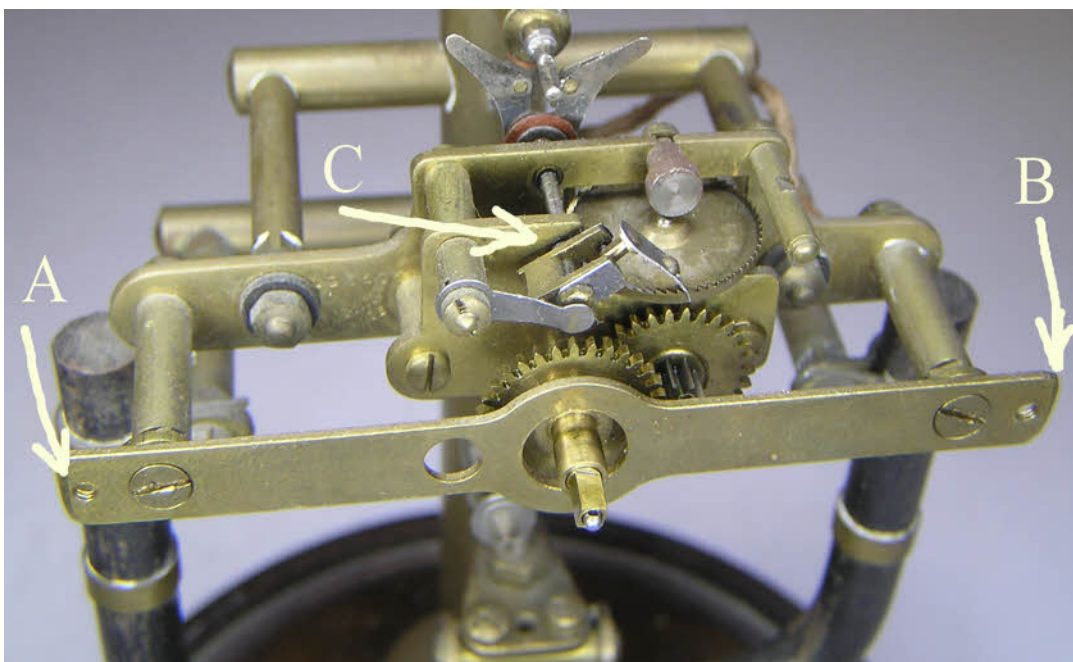
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The photo above shows the missing washer at A) and again the residue of "Brasso" while at left we see:-

- A) Badly worn silver contact pin.
- B) Pin has been soldered into the assembly.
- C) Pendulum suspension offset bracket loosely fitted.

We will need to manufacture a new contact pin from solid silver and also remove and correct the threaded holder.



The last photo here shows :-

- A) and B) The rounded and shaped corners of the dial retaining horizontal bar. This accommodates the brass lip around the dial. This may or may not be original. I have seen a few clocks with these rounded corners. Normally you would have coned washers to fit the brass surround.
- C) Shows the missing "Long" stop pawl.

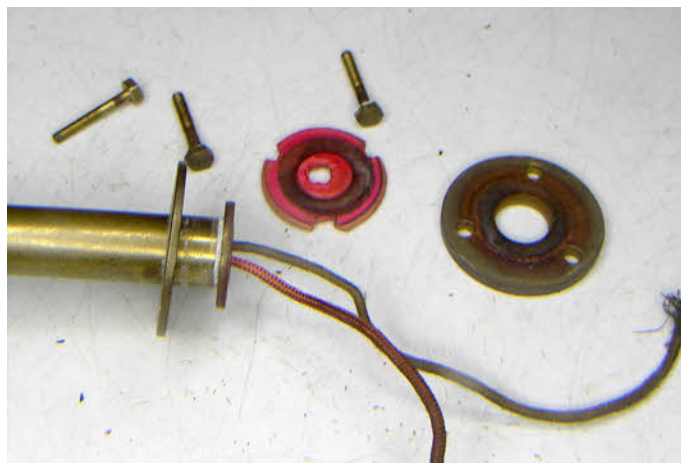
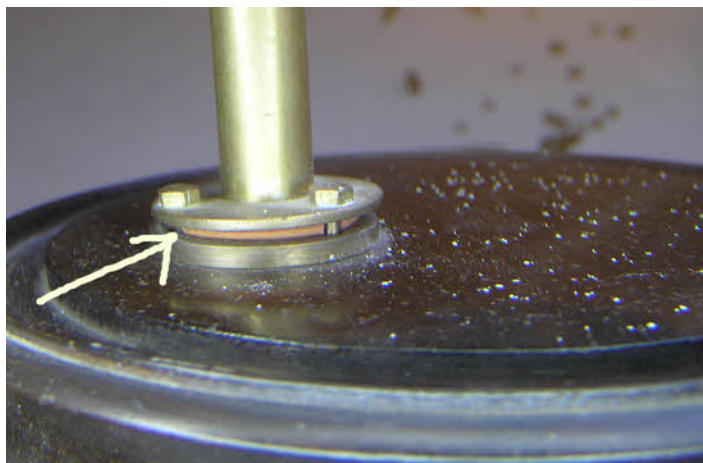
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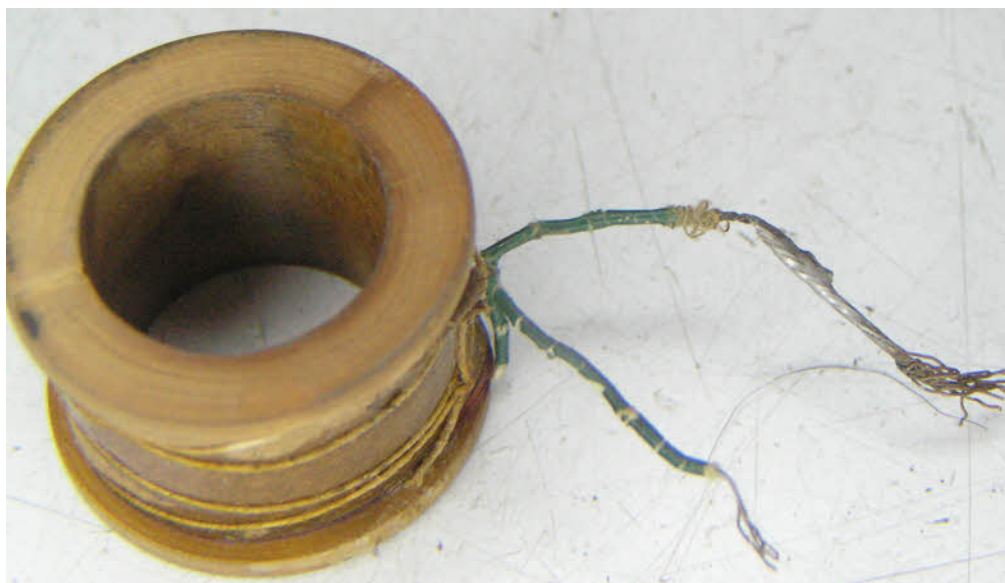
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These two photos above show the packing that was found underneath the column. The reason it was there? I would guess that someone was trying to lift the column up slightly to accommodate the pendulum which must have been lengthened.



This group of photos shows the coil and housing. Looks OK bar the lead out wires which have been altered and soldered up. The coil proves to be fine with a good resistance reading so all we need do is clean the lead outs and extend them with new copper wire.

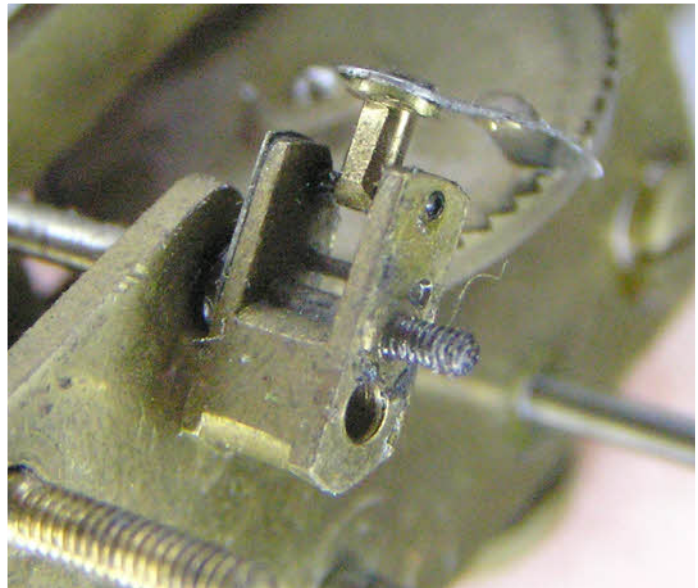
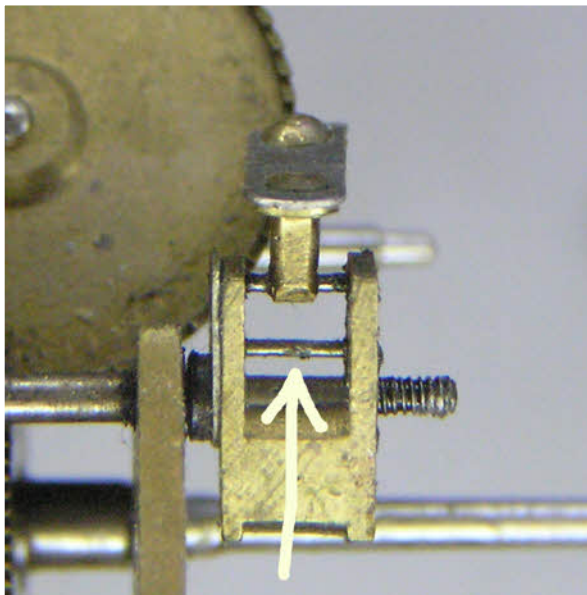
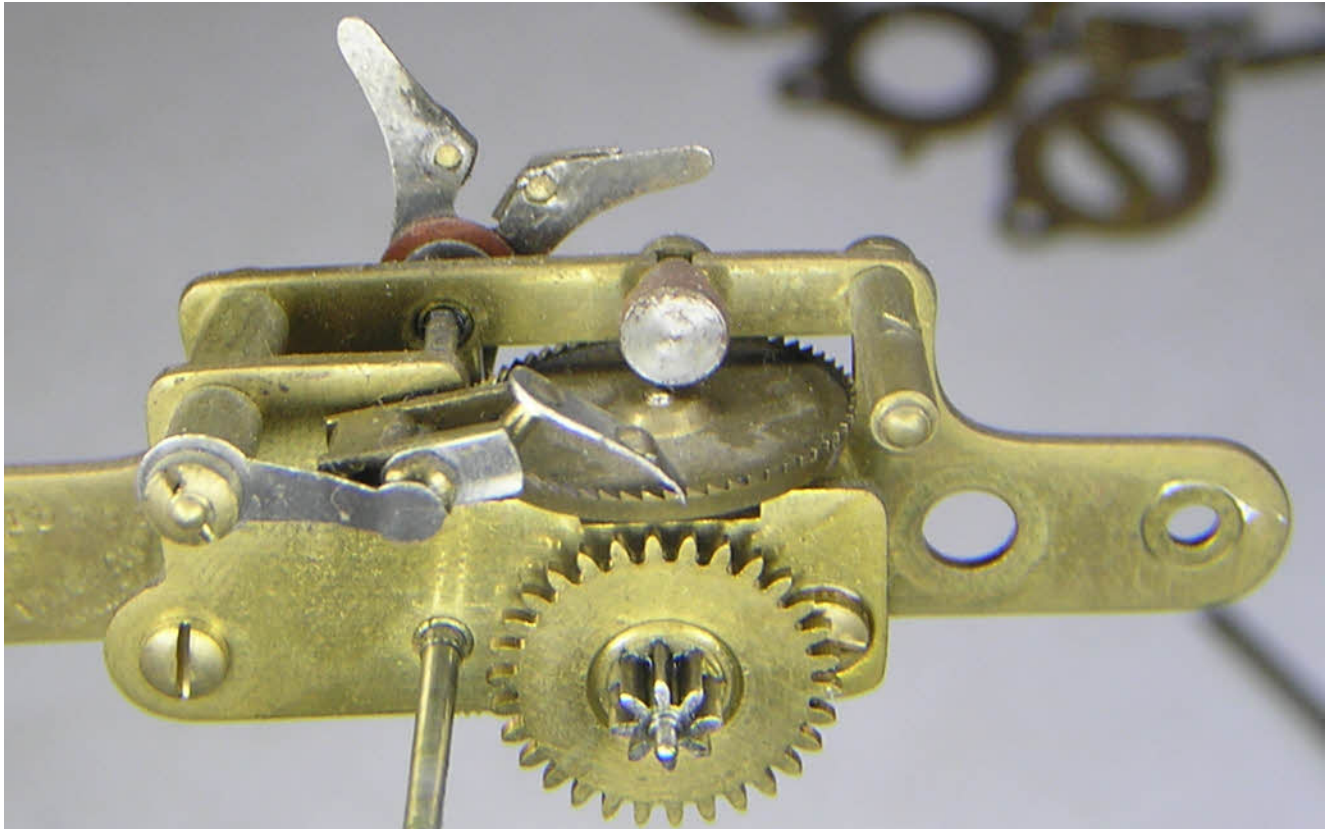
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This group of photos shows the detail of the missing stop pawl. The "T" pin is in place but the pawl is missing. The only way it could have come off is if it was broken or snapped. We will need to work out the length required and replace the pawl.

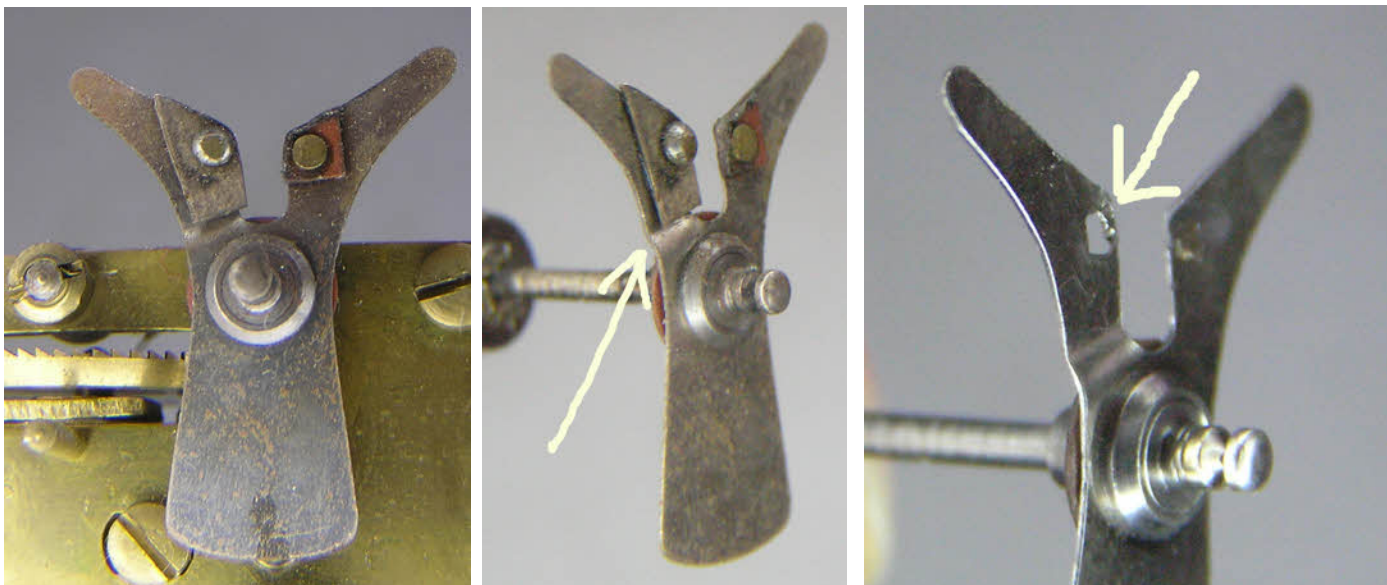
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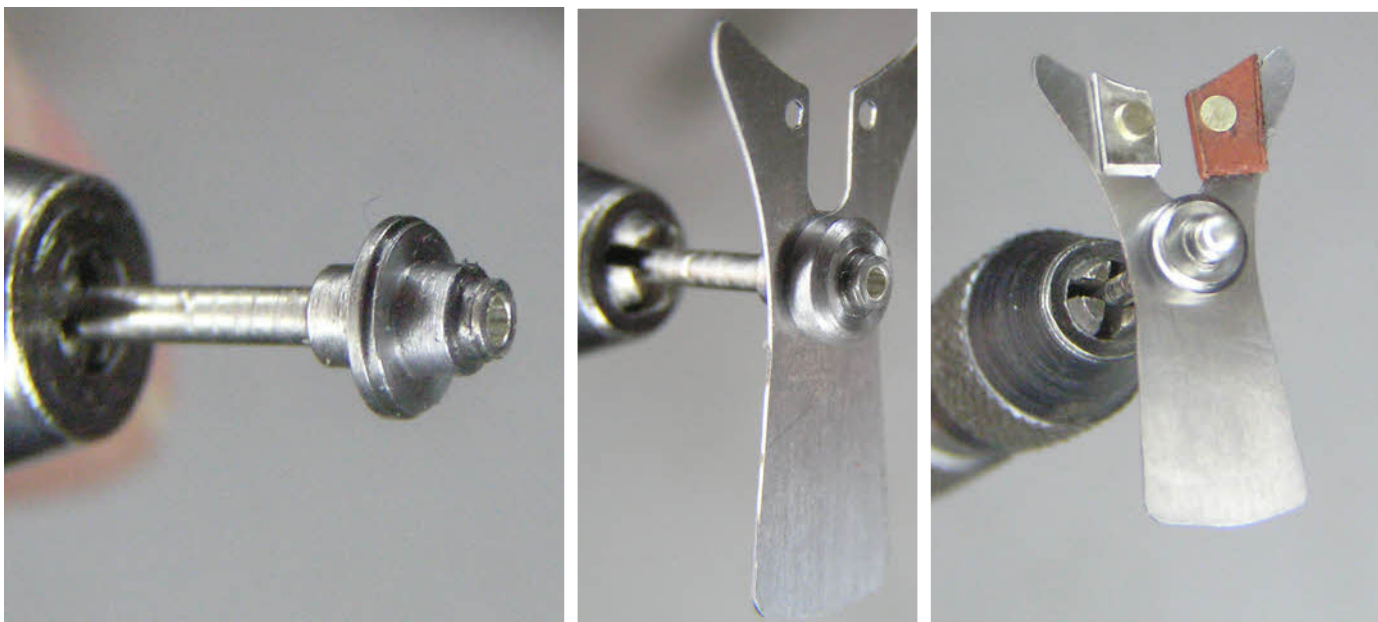
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The fork is in a bit of a state. A new piece of silver has been riveted in during which procedure the fork has been bent. And the rivet hole damaged. We will replace the fork



This group shows the stages in replacing the fork. First the retaining collar is turned off. The new fork is then riveted on with a new collar. The silver grooved contact is then inserted and the silver and fibre contacts riveted in place. The last photo shows the new contacts ready for final shaping.

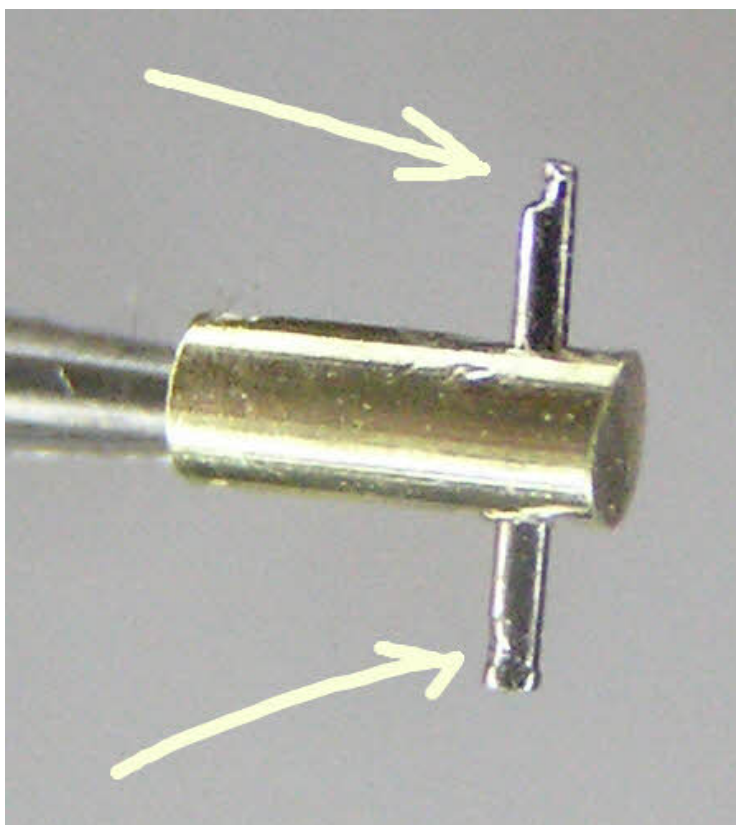
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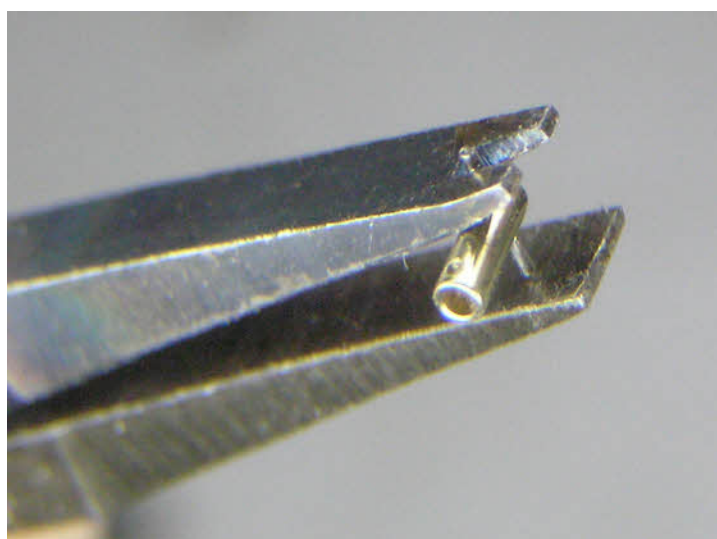
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On removing the lower Isochron spring bracket from the pendulum, I noticed a slight!! Bit of wear in the "T" pin as can be seen in the photo top right. The pin is so badly worn that it need replacing.



I used a modified pair of small smooth nosed pliers to remove the old pin. These pliers have a slot ground in them primarily for use on removing the clock hand retaining taper pin.

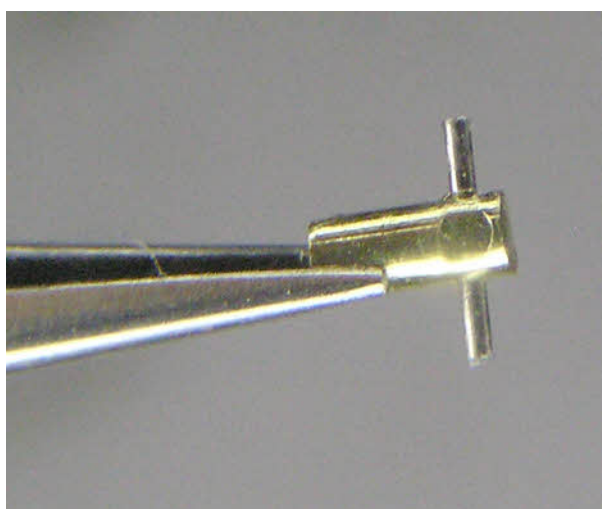
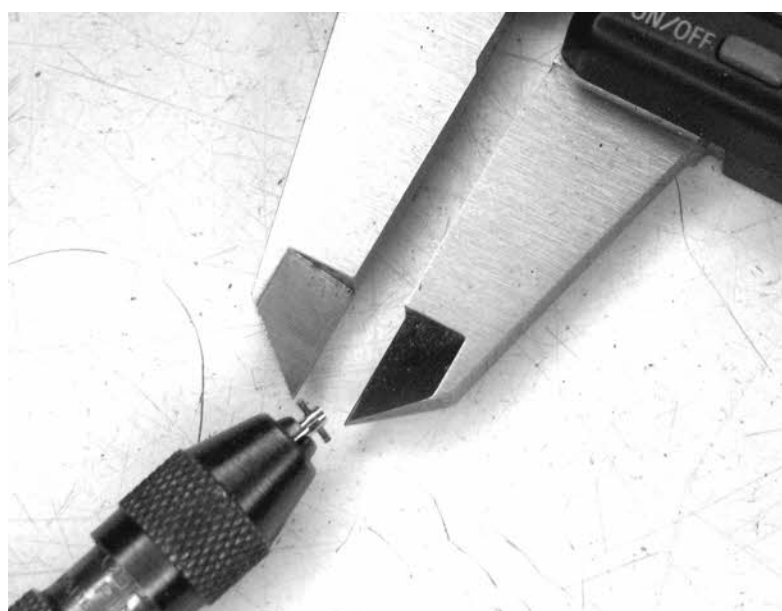
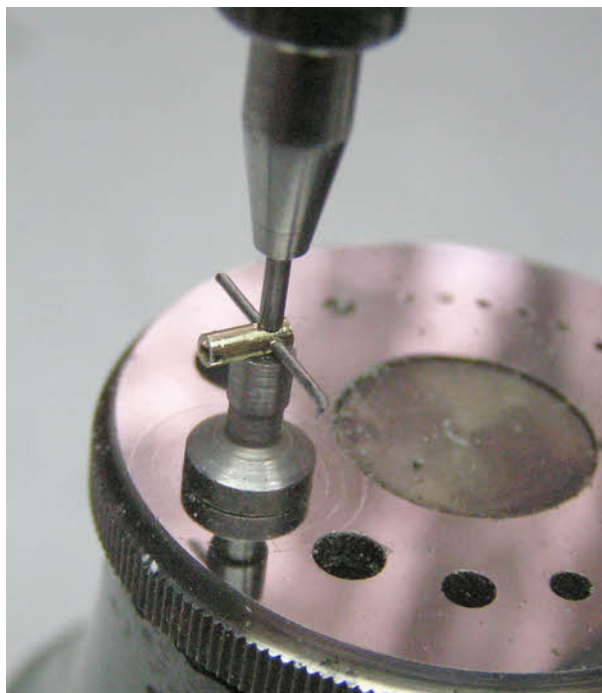
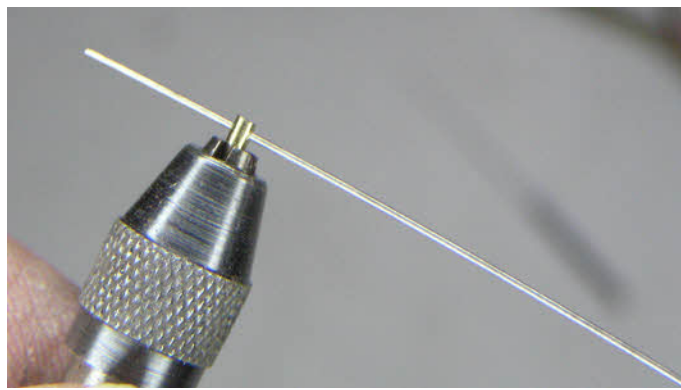
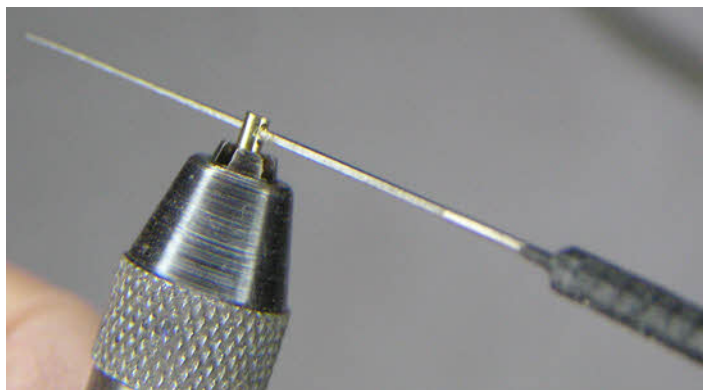
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This sequence shows the hole being broached out to accept the 0.5mm piano wire. After cutting off a suitable length the whole is positioned in the staking tool to be pinched in position. The total width is then checked to make sure the pin will not foul the washers and "stick" whilst in use. The final photos show the assembly fitted.

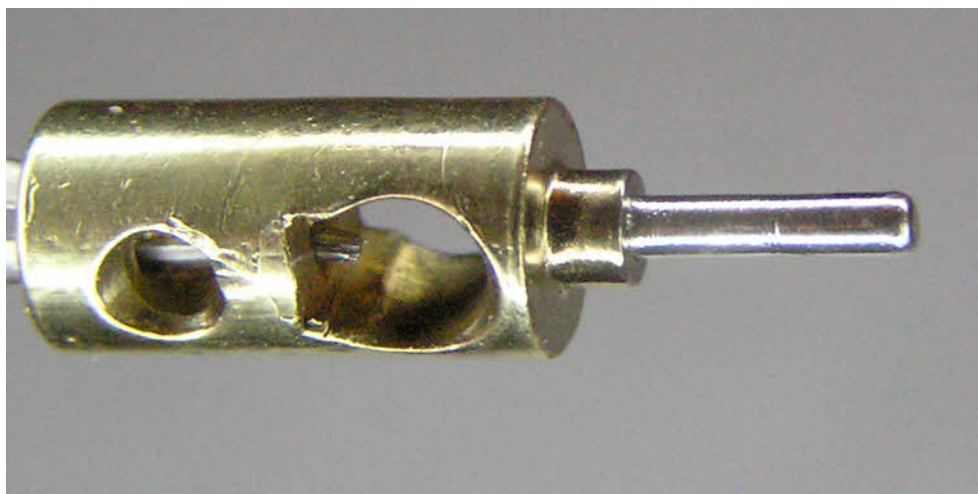
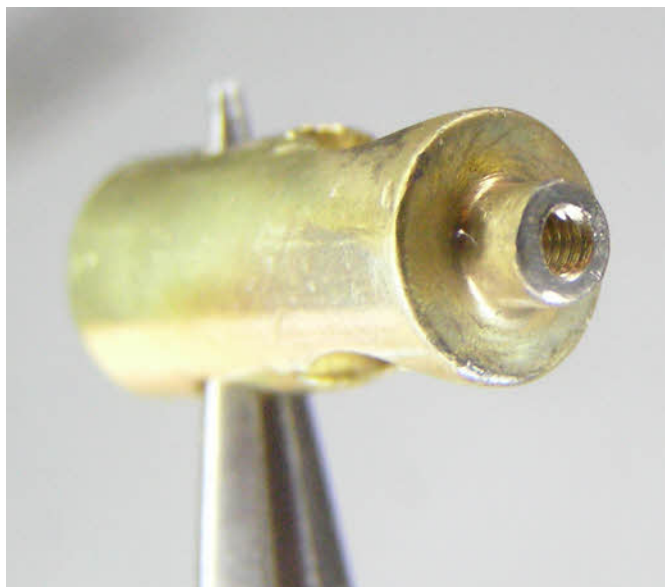
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This sequence shows the contact pin assembly cleaned up and threaded ready to accept the new silver pin. The pin is turned up and threaded. The pin is then screwed into the housing and cut off top length. The final photo shows the new pin assembly ready for use. Silver is quite soft and will need to be held in the lathe securely with a minimum overhang



This photo at left shows the damaged worm wheel. Luckily the threaded hole for the retaining grub screw is on the other side and its function unaffected. So we will not need to replace the worm. It will not be seen once the clock is assembled.

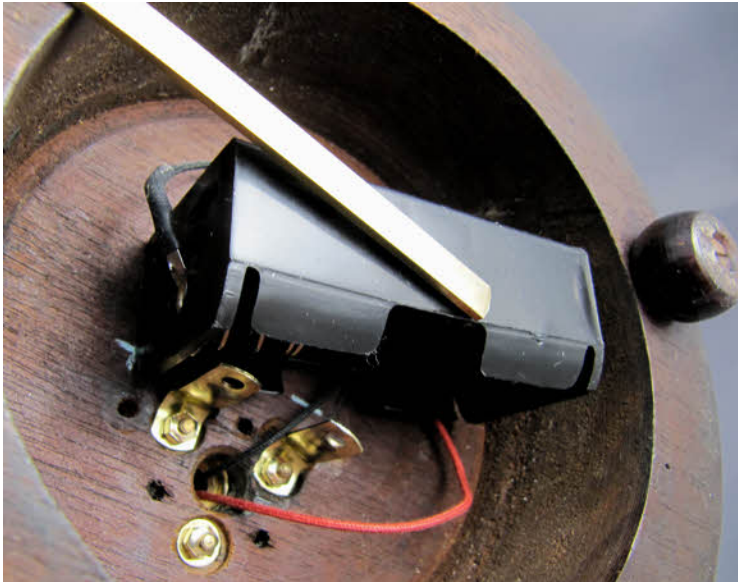
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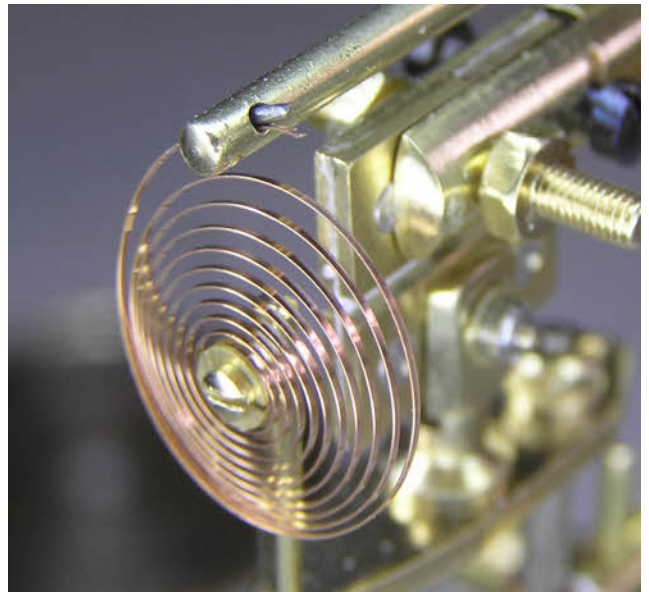
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The underside of the base showing the new battery holder.



The new hair spring in place



The restored movement back in position. Note the new stop pawl.

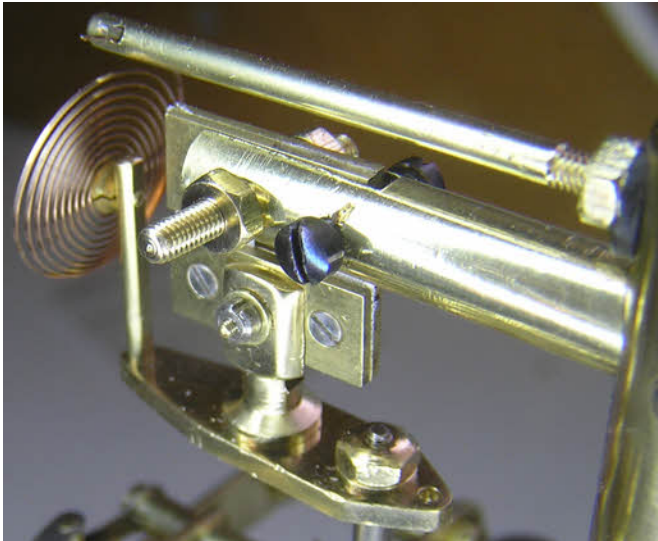
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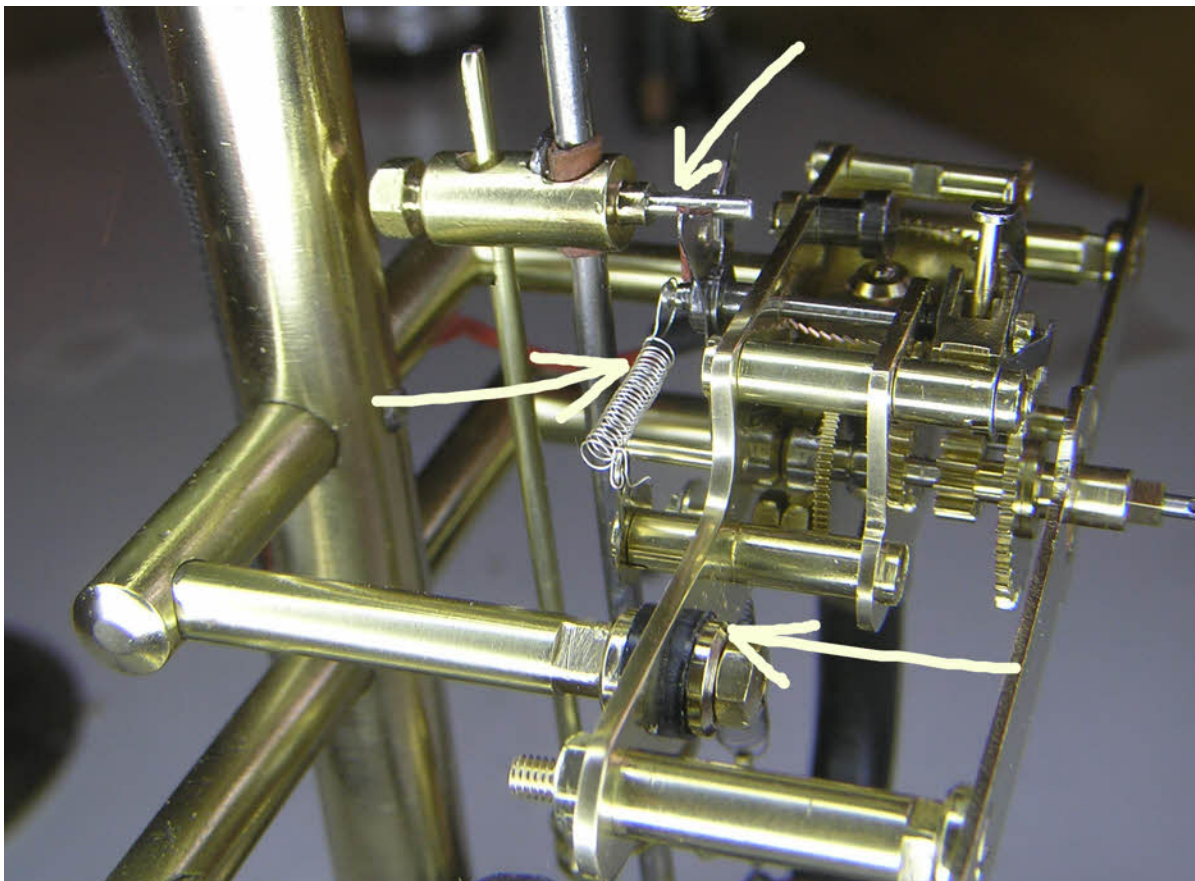
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The new silk suspension with replacement "Blued" screws.



The pendulum and magnet back in place.



The movement showing the new contact pin and contact spring.

Note also the replacement washer.

(all arrowed)

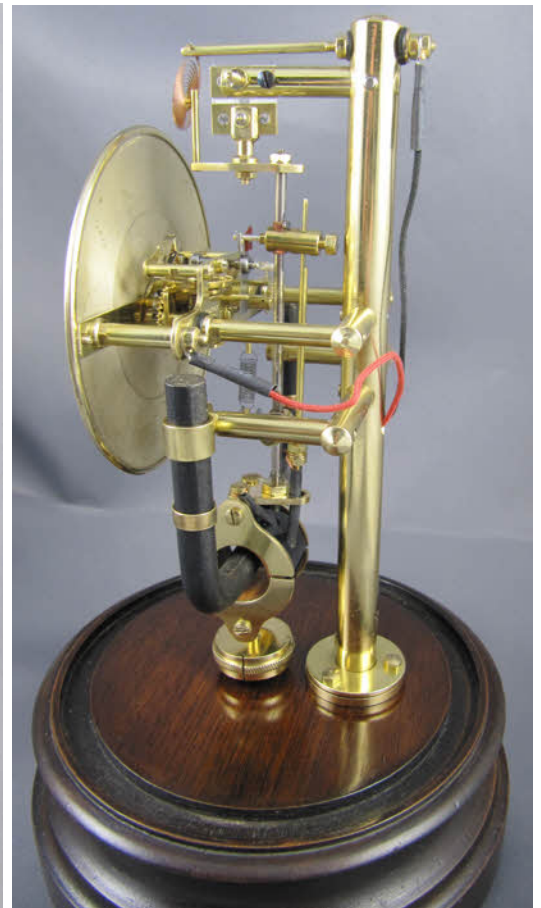
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The base has had the top coloured and french polished while the side have been cut and waxed.

The completed clock.