

Horologix



The place to come for all your Bulle and Eureka restoration parts.

Contact Peter Smith
Telephone 01454-880825
Or Mobile 07969-773480
[Email peter_smith@horologix.com](mailto:peter_smith@horologix.com)

Bulle Clock Serial Number 7221

Restoration of Bulle Clock Serial Number 7221

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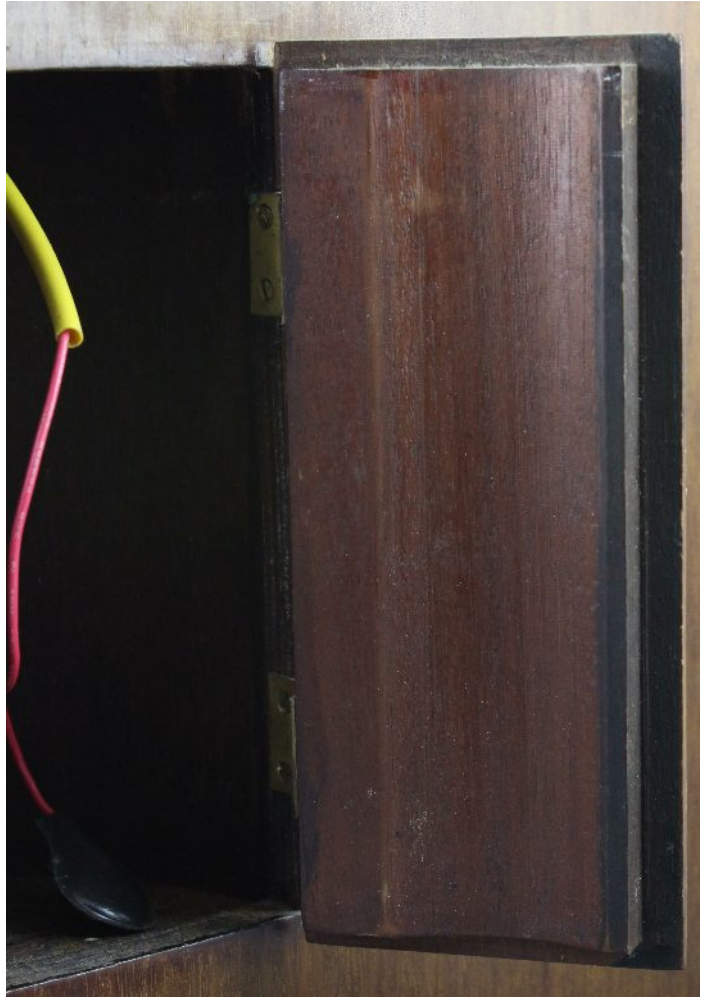
Photos by kind permission of the owner. A tall movement Bulle with a 0.50 beats per second pendulum in a mahogany veneered round top case with fully glazed front door. The glass is thick and bevelled. A small rear door houses the battery. Overall the clock looks to be complete and in good condition. The wood case is a little dry and will need a few good coats of beeswax to feed the wood.




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It's interesting to note that even though this clock is of the same design as the closely related s/n 7421, there are small differences. In this case the rear battery door has a machined recess to accept the battery. The door is much thicker than the one on s/n 7421. Note in the photo at top left that the case levelling foot is missing



The pendulum bob looks to be intact .

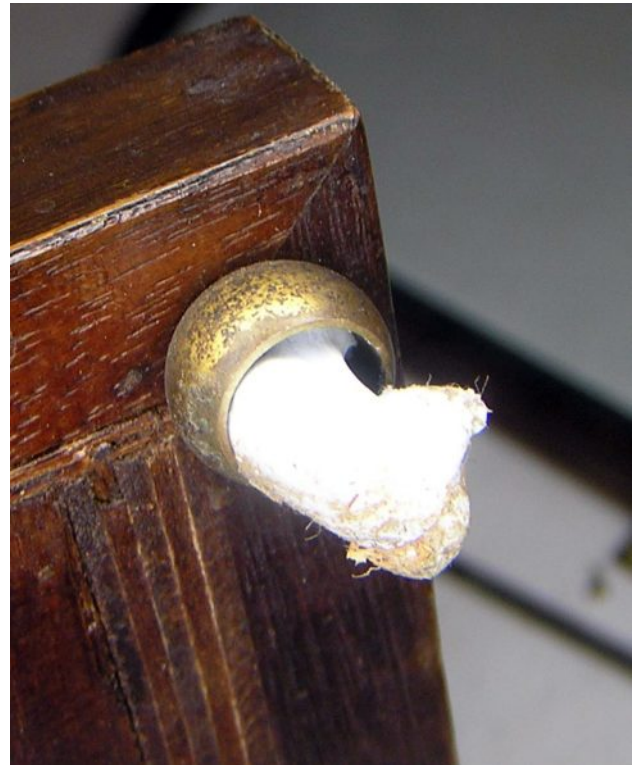
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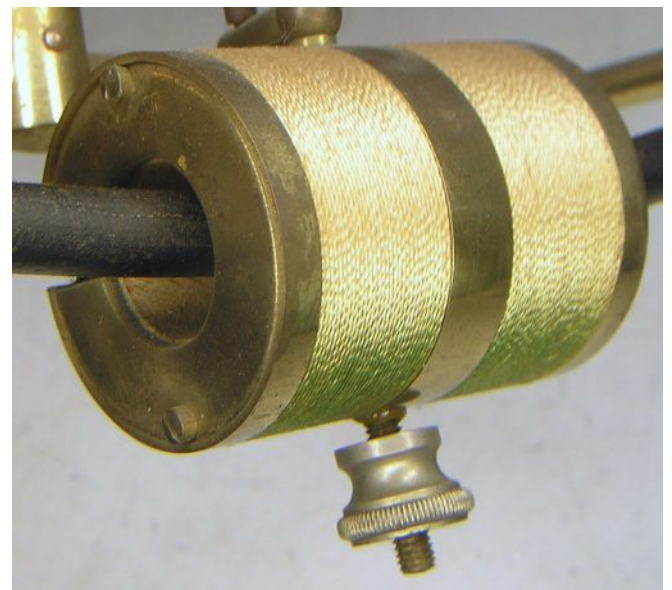
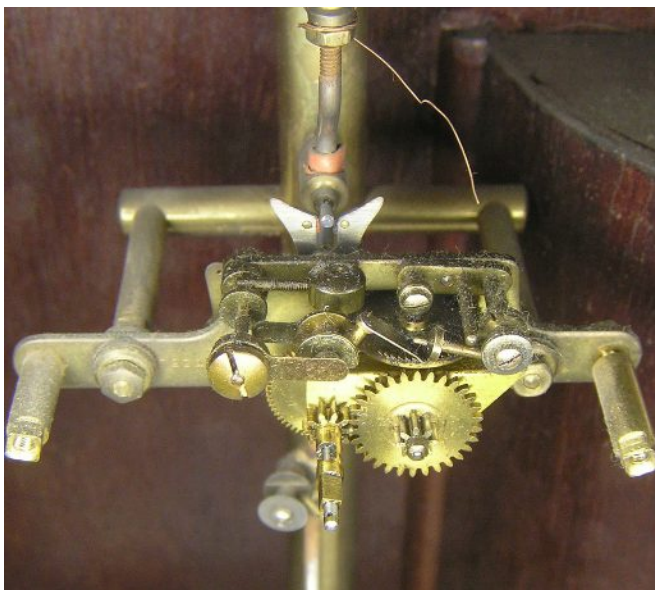
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The dial above is in very good condition with just the brass in need of a polish. In the photo right above can be seen what I think is a white "Bluetak", probably used to stabilise the clock on a shelf.

Below left is a shot of the movement before removal. All looks to be OK bar the dirt and oil. Below right is the pendulum coil with a replacement rating nut. It was probably changed to try and lighten the pendulum to try and make it run faster.



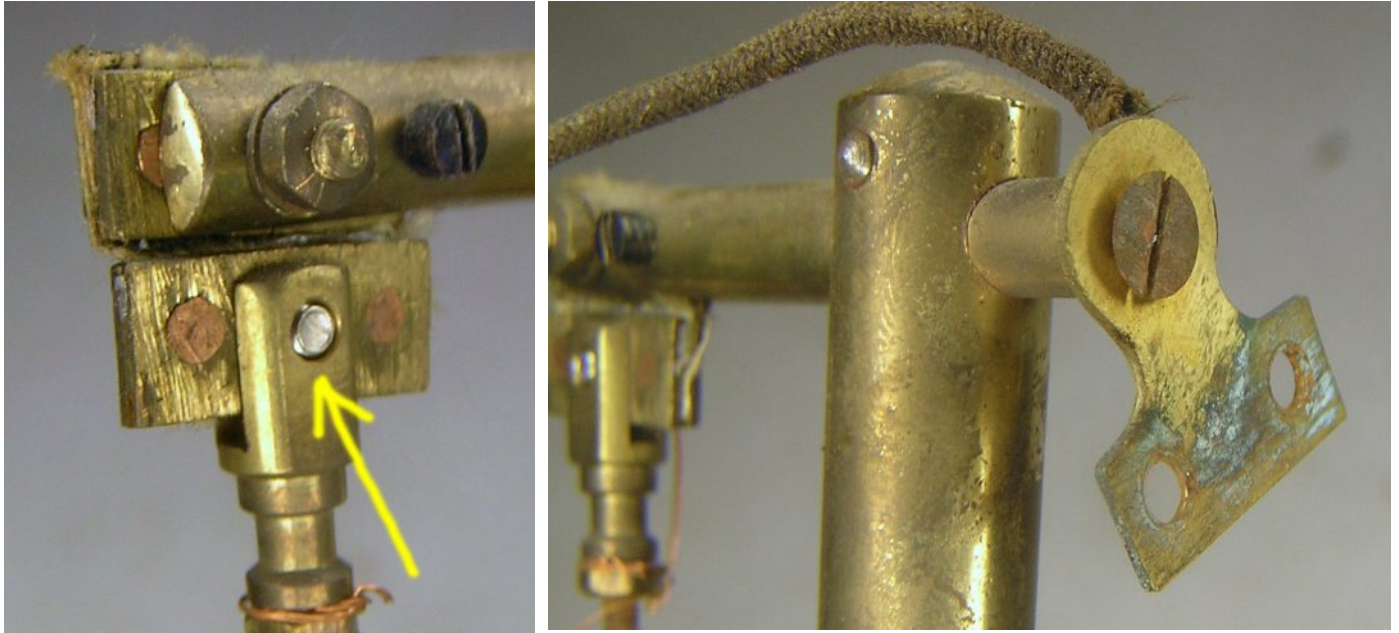
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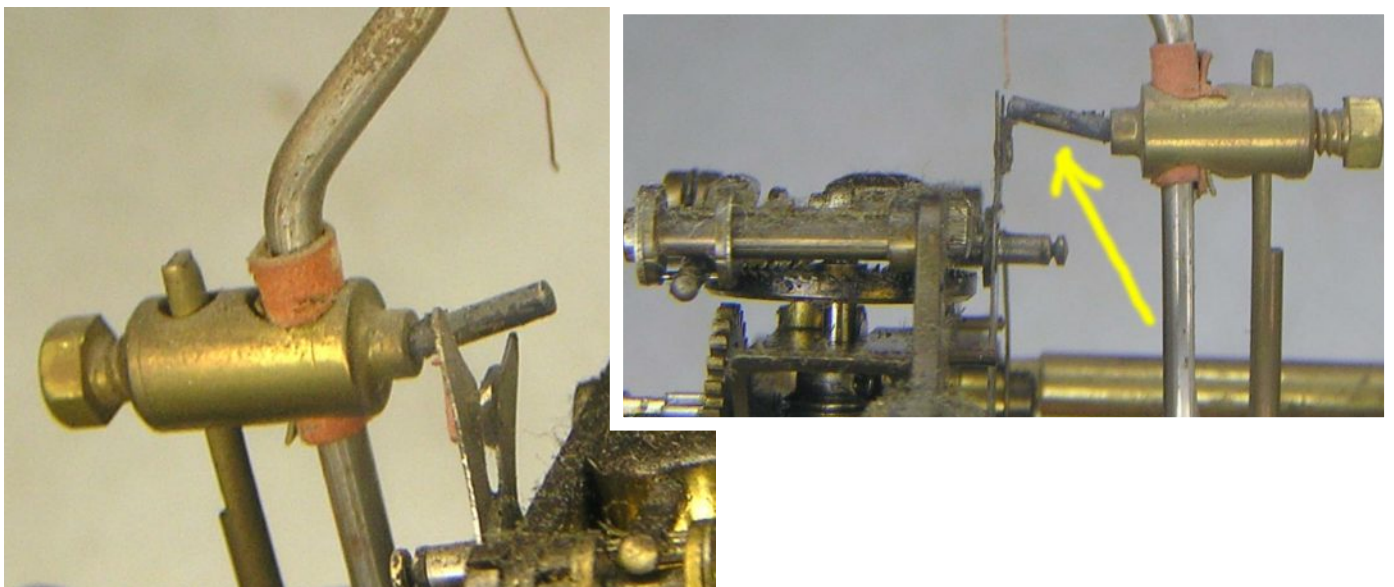
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Above left is the suspension which as a problem in that the lower suspension screw is a replacement which has unfortunately snapped off and has been riveted through to keep it in place. This will need replacing or the screw removed. Above right is the negative electrical connection from the battery. It can be connected anywhere on the frame but this point will be hidden behind the dial at the back of the case and won't be seen.



These two photos show the bent silver contact pin. Even though it looks bad, it can easily be bent straight if help in the correct position and bent back slowly.

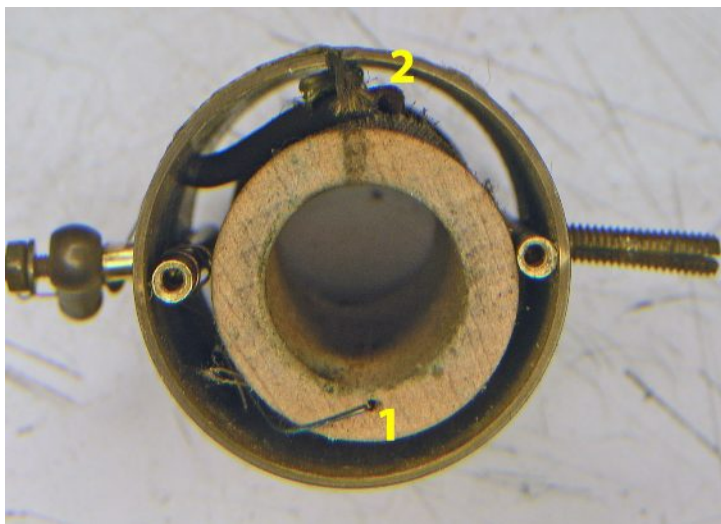
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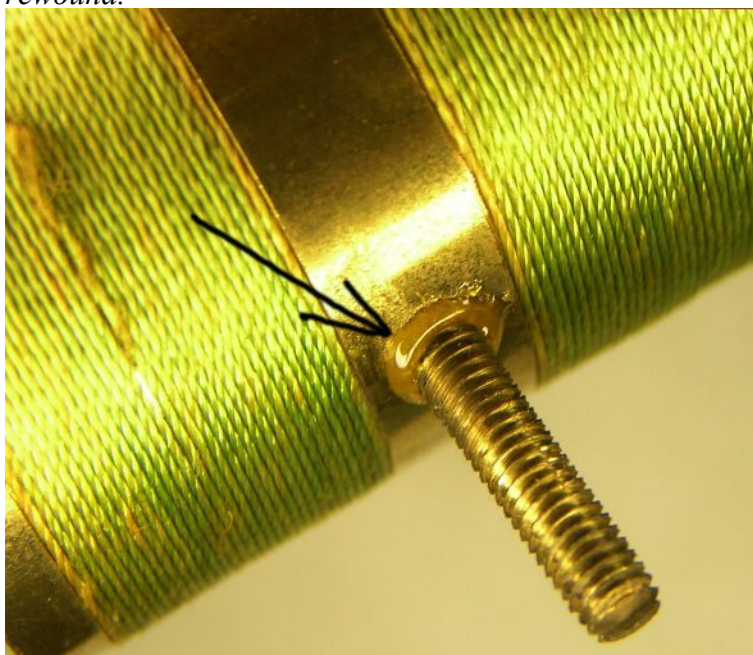
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Above left is the pendulum bob with the cover removed. The lead out wire from the beginning of the coil winding (1) which exits through a hole in the wooden bobbin, is wound around one of the cap spacing rods, whilst the other lead out wire from the last turns of the coil (2) are insulated and exit the casing at the top for connection to the brass rod which runs from the bottom of the pendulum right up to the contact pin assembly. If the lead out wire from the beginning of the coil breaks then unless there is enough wire protruding through the wooden bobbin to enable a new joint to be made, then the whole coil will have to be rewound.



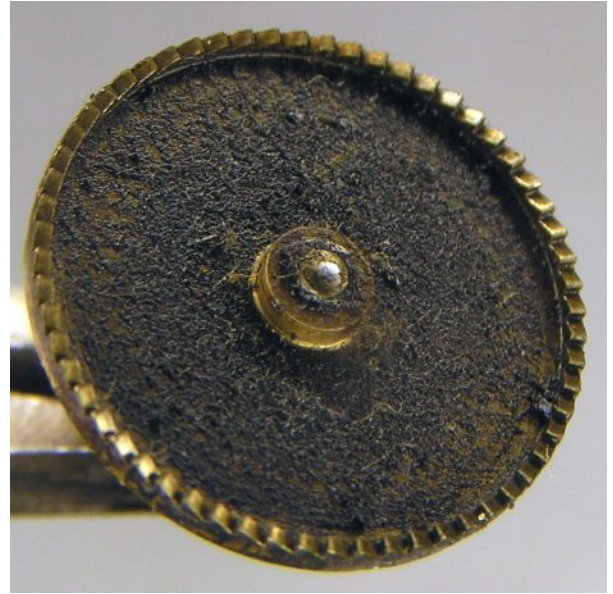
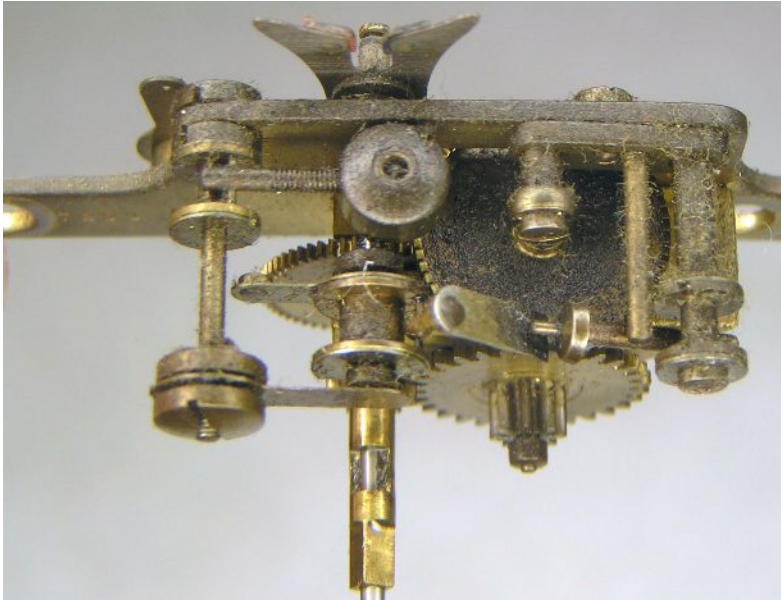
The stud upon which the rating nut screws up and down was found to have a ring of glue around its base. On closer inspection it was found that the stud had in fact snapped and was glued back in place. It didn't take any force to separate the parts so the rating nut could not have been used that much. Another item to be repaired or replaced.



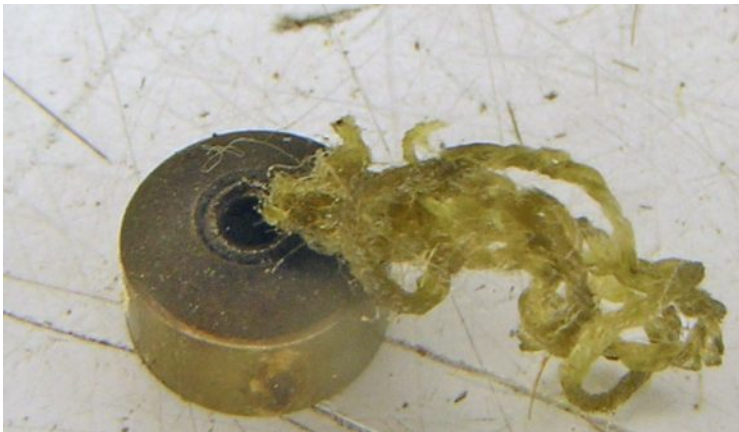

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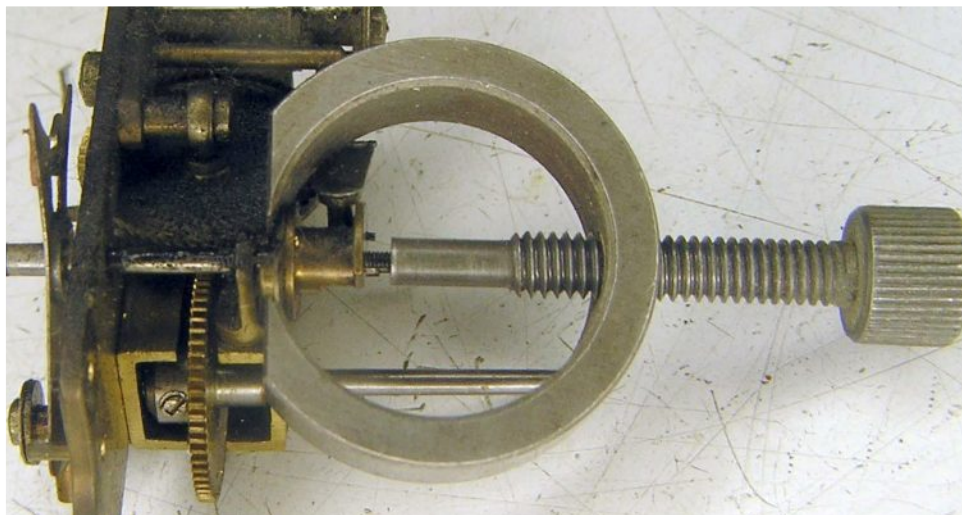
The photos above show the state of the movement especially the count wheel which is thick with oil and dirt.



At left is a shot of the damper with the cotton cord partially removed. This will all need removing before insertion in the electronic cleaner.



Although there is some wear on the fork contacts above, there is still plenty of mileage left in them and it wont be necessary to change them.



At left we see the correct method of removing the pawl bobbin. DO NOT ATTEMPT to remove the bobbin by any other method as the arbour is very hard and will snap easily. I get a lot of calls about replacing these broken arbours. You have been warned:)

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This photo of the bottom case cover is interesting in that it looks original but has been made from a barometer dial. You can just make out the word "FAIR" and the graduated markings around the outside.



At left are all the parts that will need replacing or repairing.



At right is the new case levelling screw turned up on the lathe.

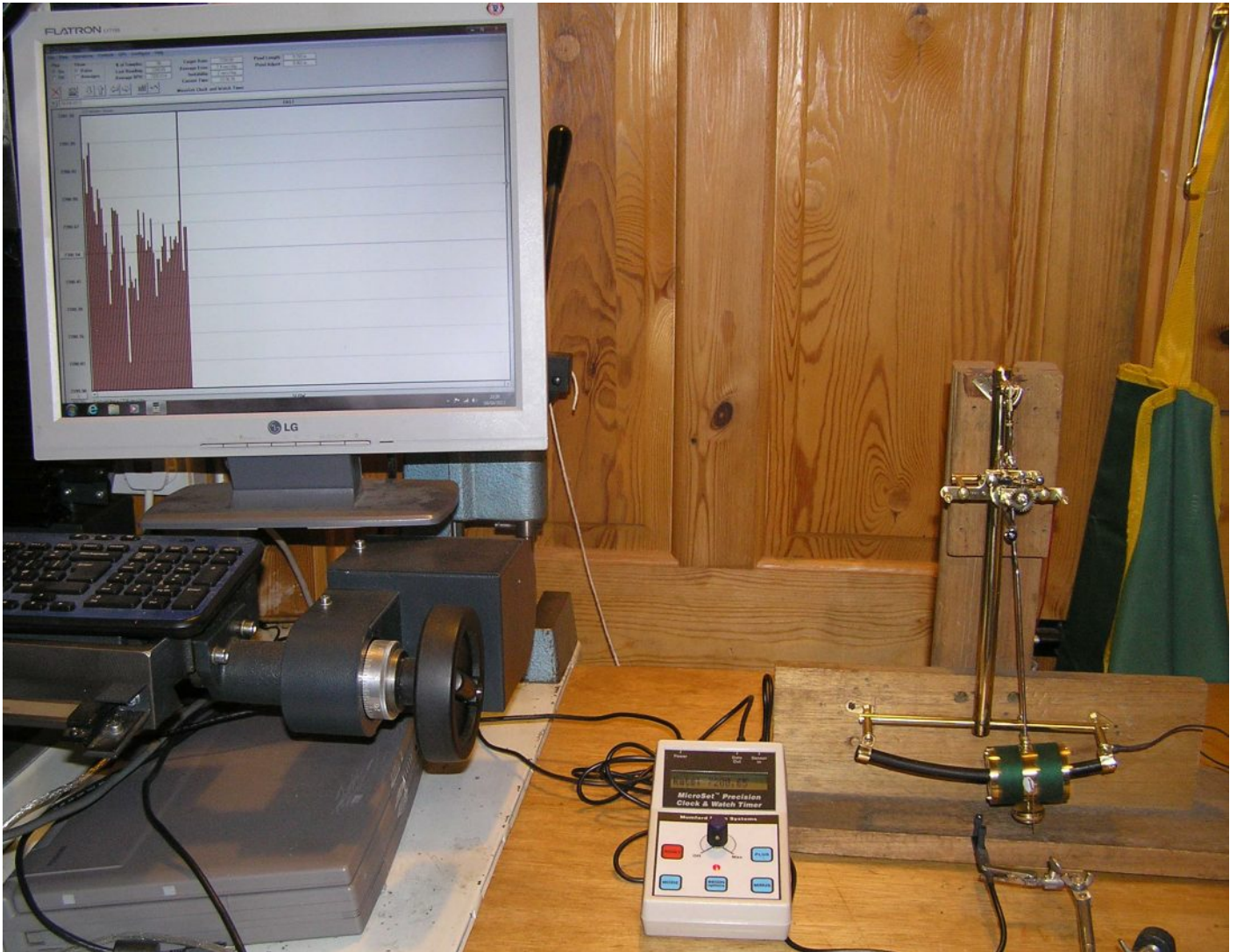
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Above can be seen the clock on a wooden test stand being regulated with the "Mumford Microset Precision Timer". This device makes calibration of Bulle and Eureka clocks a doddle.

At left can be seen the movement cleaned and polished with the damper refilled with clean cord and one or two drops of watch oil.

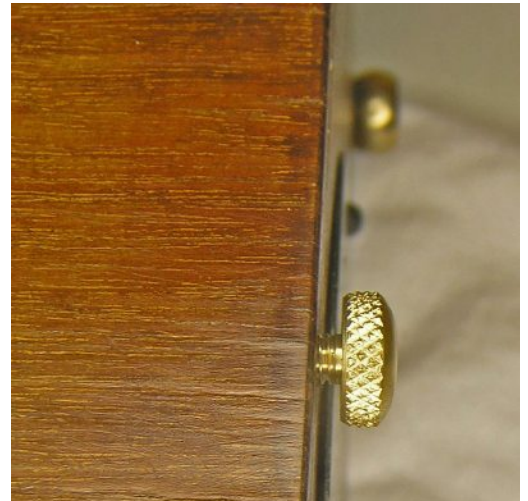
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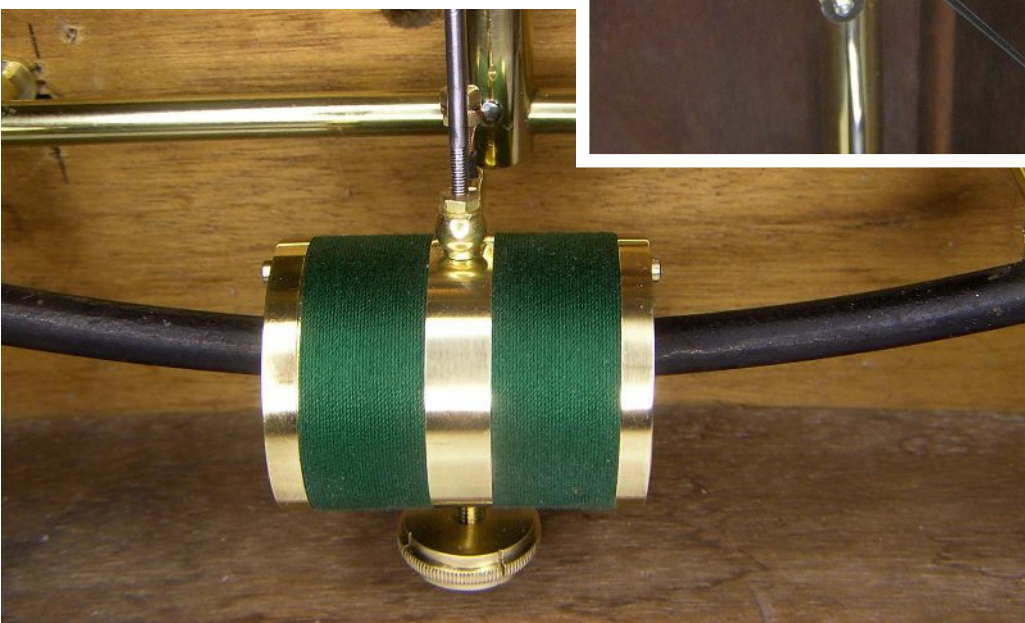
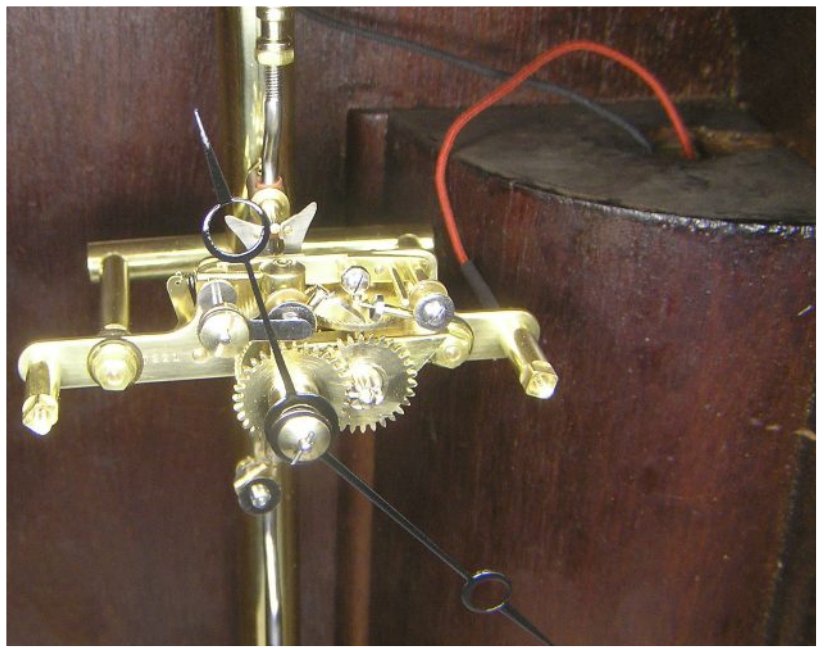
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Above is the base of the case with the Barometer dial cover. Top right I sthe new levelling screw in place.

To the right is the movement back in place in the case ready for the dial.



To the left is the pendulum casing with new cord and rating nut machined in the correct style..

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The finished dial with restored hands.



Some shots of the finished clock.

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The finished Clock