

		<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 51029

Restoration of Bulle Clock Serial Number 51029

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*Photos by kind permission
of the owner.*

*This clock is a tall move-
ment in a four glass case ,
the top and bottom of which
are mahogany, while the
verticals are of brass. The
glass and verticals have
been retained by the owner.
The movement is a two plate
version dating from about
1925. The coil casing still
retains its original cord and
the owner has requested
that it be kept if at all possi-
ble. I will try and cover it
while I clean the casing. The
hands are of the fine spade
type on a dial of aluminium
alloy.*

*The one thing to note about
this clock is the column.
This looks to be plated in
some material like nickel. It
is very bright with no tar-
nish evident and no lacquer.*

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The clock from the rear. This photo highlights the difference in colour between the plated column and the rest of the clock. The second photo includes the mahogany top of the case. The wood will only be treated to a wax polish in line with the wishes of the owner.

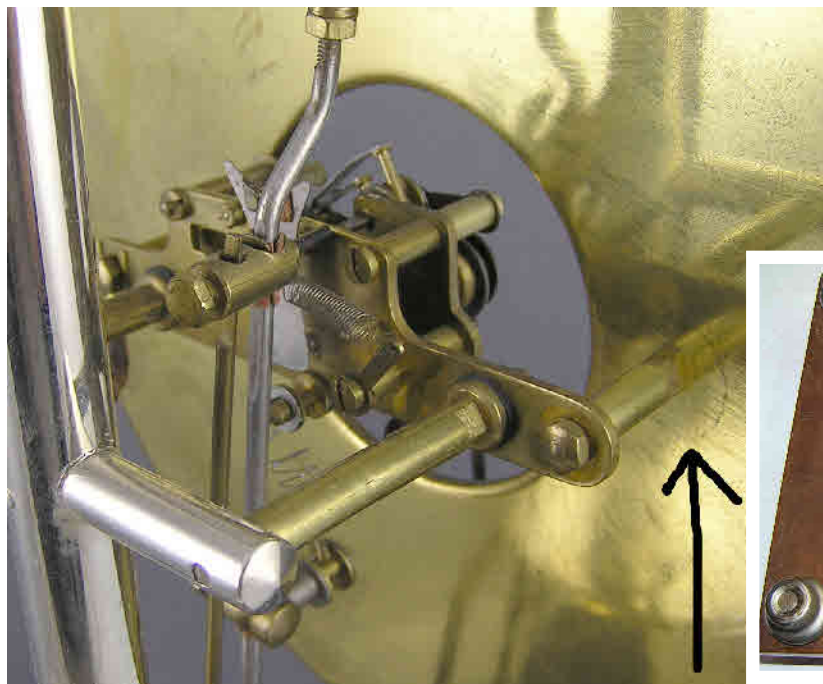
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The rear of the dial showing the move-
ment and the marks left from the miss-
ing brass washers that support the back
of the dial where the dial screws pass
through (arrowed).



The bottom of the base which shows that
the bottom cover is in good condition
with no acid burns, so we will leave it as
is.



The common oval label of later Bulle
clocks.

This last photo shows the nice straw colour of the faded coil
cover and the generally good condition of the wood which will
just have a coat of wax polish.

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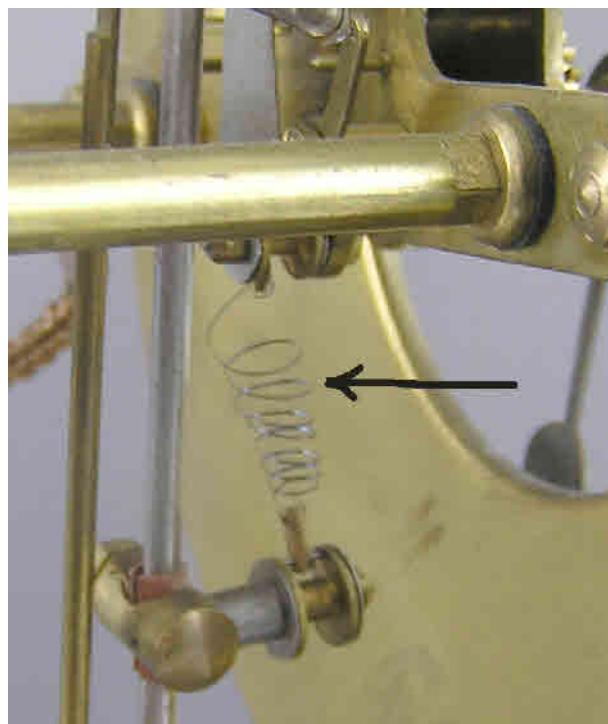
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The photo at left shows the missing screw to secure the also missing contact wire that carries the power across the gap of the silk suspension unit. This will be replaced.

The photo at right shows the remains of the Isochron spring.. This will also be replaced with an original Horologix spring.



These two photos show what was found inside the column. The negative side of the battery was wired to the case by a large blob of solder. And then covered with tape. This will be removed and cleaned up. There is no need to use solder for this connection at all. The wire from the negative side of the battery will be captured under the column by one of the column screws.

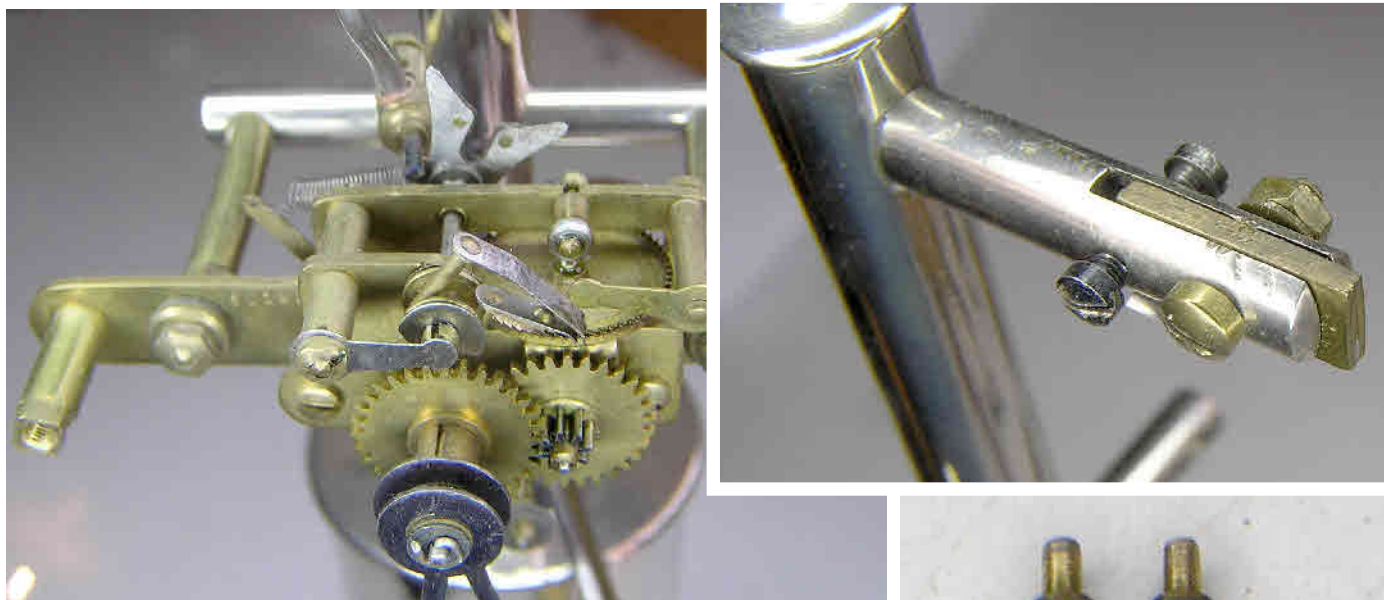
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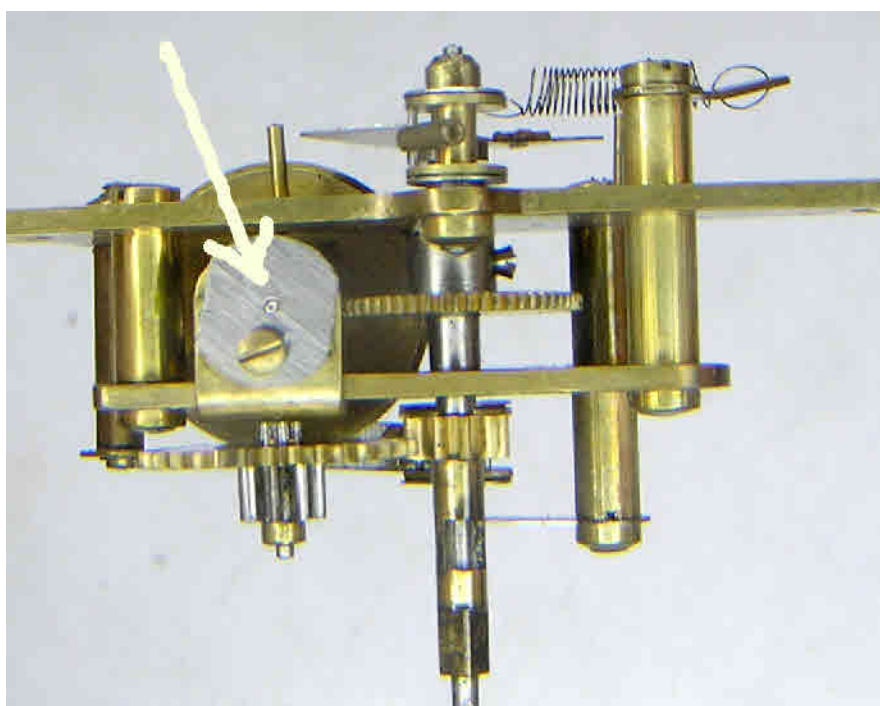
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Above we see the movement in good condition and at right the broken suspension unit with the original blued positioning screws. These capture the top block of the suspension and keep it tightly in position. The two movement support pillars can be sigh at right with a slight bend in both to try and align with the holes in the movement.!! So why are the holes in the frame and those in the movement misaligned?



The final photo at left shows the underside of the movement and the count wheel stop plate. The small dimple seen in the photo is wear caused by the count wheel arbour. So this plate must have been turned up-side down to present a new bearing surface, at some time in the past.

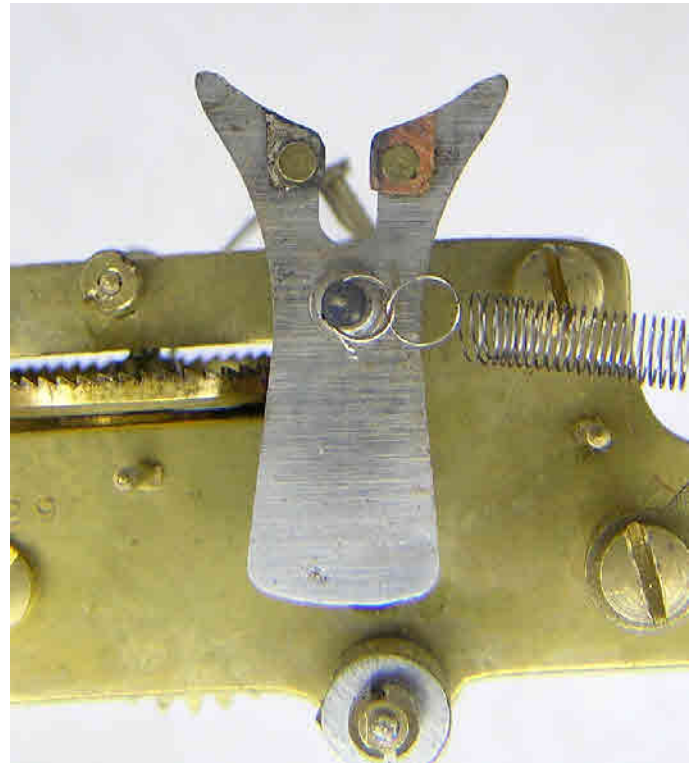
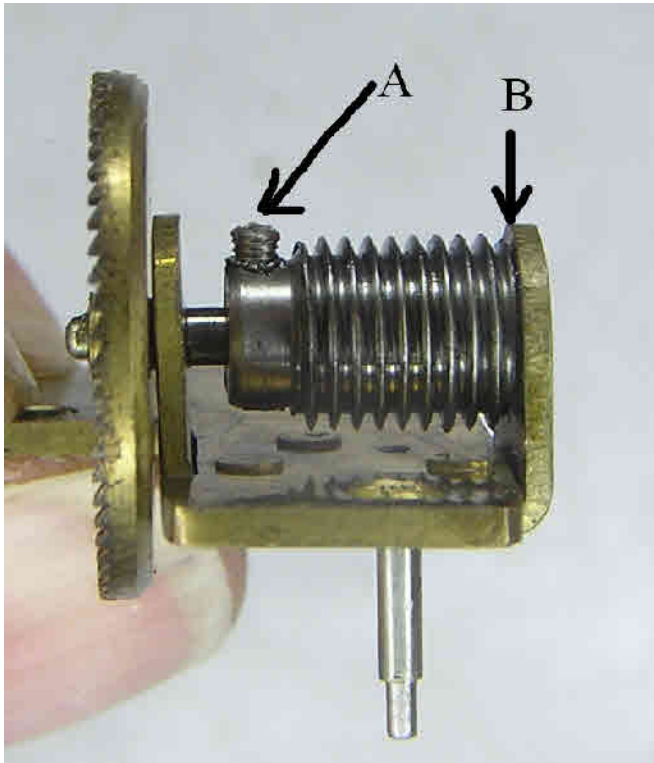
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Above can be seen the count wheel and worm. At "A" can be seen the worm retaining screw which screws into a small dimple on the arbour. Why is it sitting so proud? On investigation it was found not to be engaged in the dimple at all. It was screwed down hard further down the arbour which meant the worm was sitting low and just rubbing the bottom plate as seen at "B". Also it scored the arbour which meant it was difficult to remove the worm. This was corrected. But it does mean that the movement has been taken apart and rebuilt at some time.

The fork and contacts look to be in good order bar the dirt. Below we see that the fork arbour was only very loosely riveted to the fork and has parted easily on handling. The two parts have been cleaned and riveted together forming a much more secure bond.



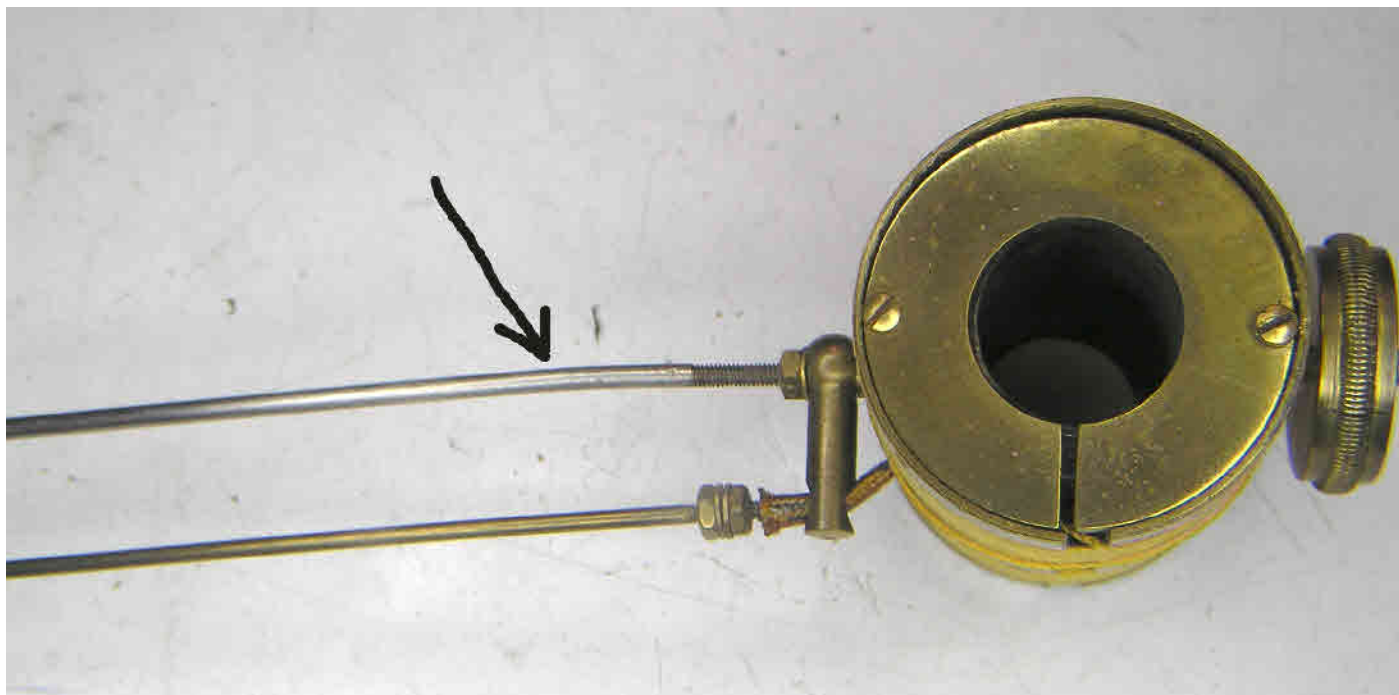
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Above can be seen the pendulum bob and rod. The rod has a slight bend which will be easily removed.



The photo at left shows the coil, casing and cord. The coil proved to be good showing approx 1100 Ohms resistance. The cord looks quite good and should survive being covered while the casing is cleaned and lacquered.



The last photo shows the replacement dial support washers that have been turned up on the lathe.

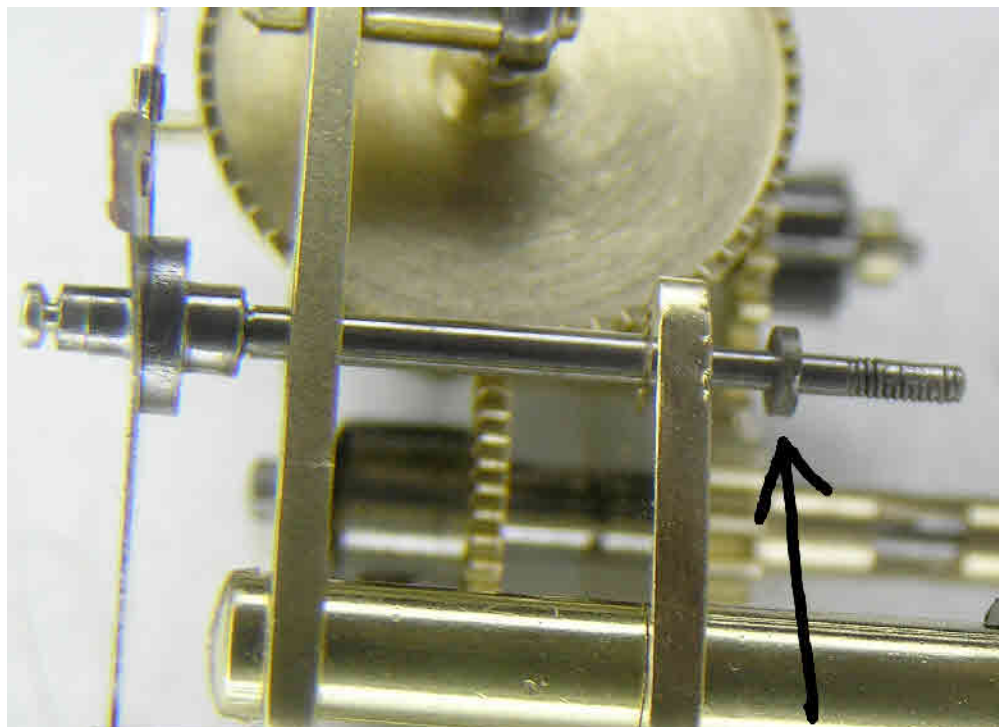
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This photo show the movement being reassembled. I thought it interesting to show the small steel bearing washer situated between the pawl lantern assembly and the movement plate. The pawl arbour has a step at this point against which the washer is pushed by the pawl assembly and nut. This provides the arbour with a little end shake. This washer is sometimes difficult to remove and is often the reason for a snapped fork arbour.



The completed movement.



The completed pendulum bob back in place. The cord has survived the cleaning well.

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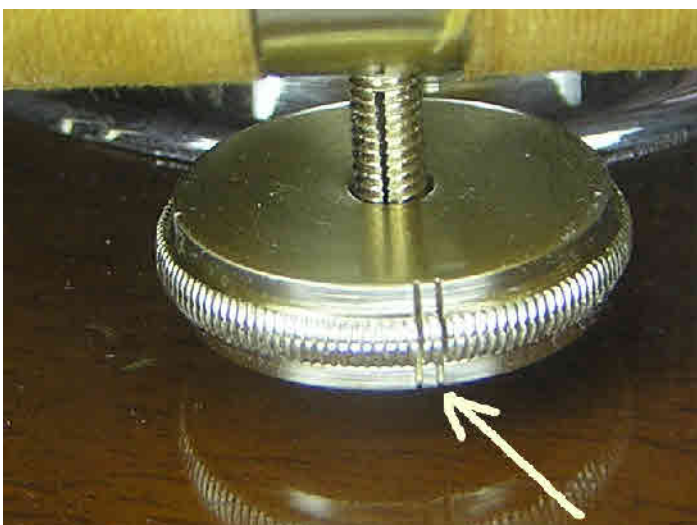
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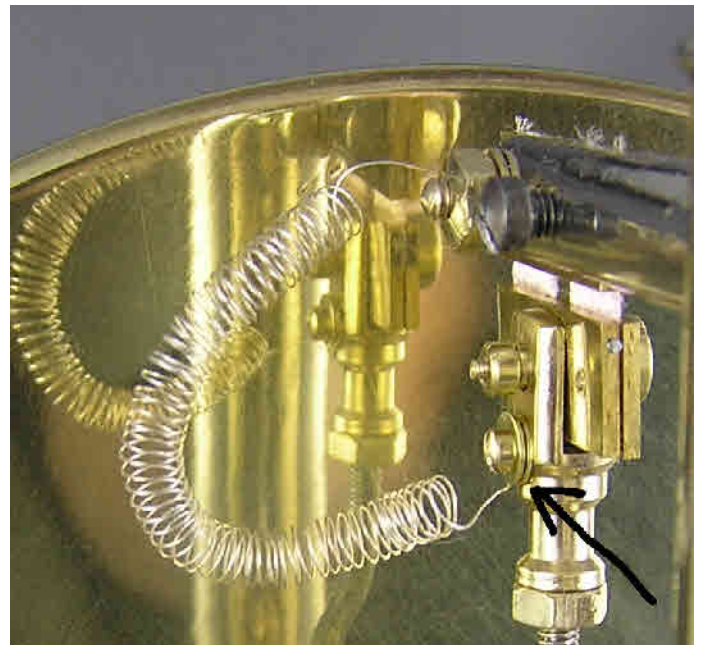
This photo above shows the fork arbour with the shaped washer in place as the last item to be fitted to the arbour before the retaining nut. The whole pawl lantern assembly is now secured against the bearing washer by the small retaining nut



This photo is included to show the manufacturing fault that resulted in two sector cuts being placed next to one another on the pendulum rating nut.



This photo shows the new suspension in place and the new contact wire capture screw.



The contact wire in place across the gap caused by the silk suspension utilising the new capture screw. The other end of the contact wire is retained by the washers and nut of the top suspension block.

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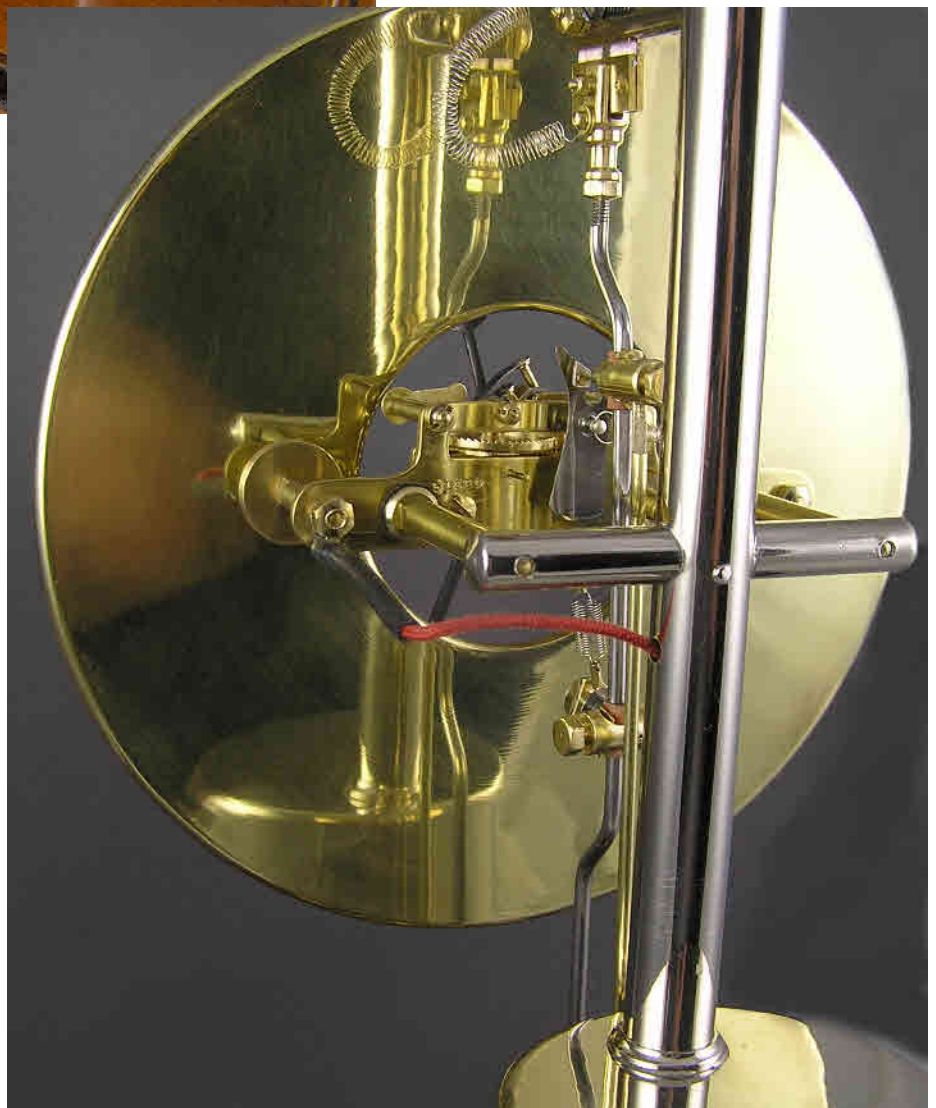
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The Pendulum and base. The cord looks elegant against the waxed mahogany of the base.

The rear of the cleaned dial and movement.



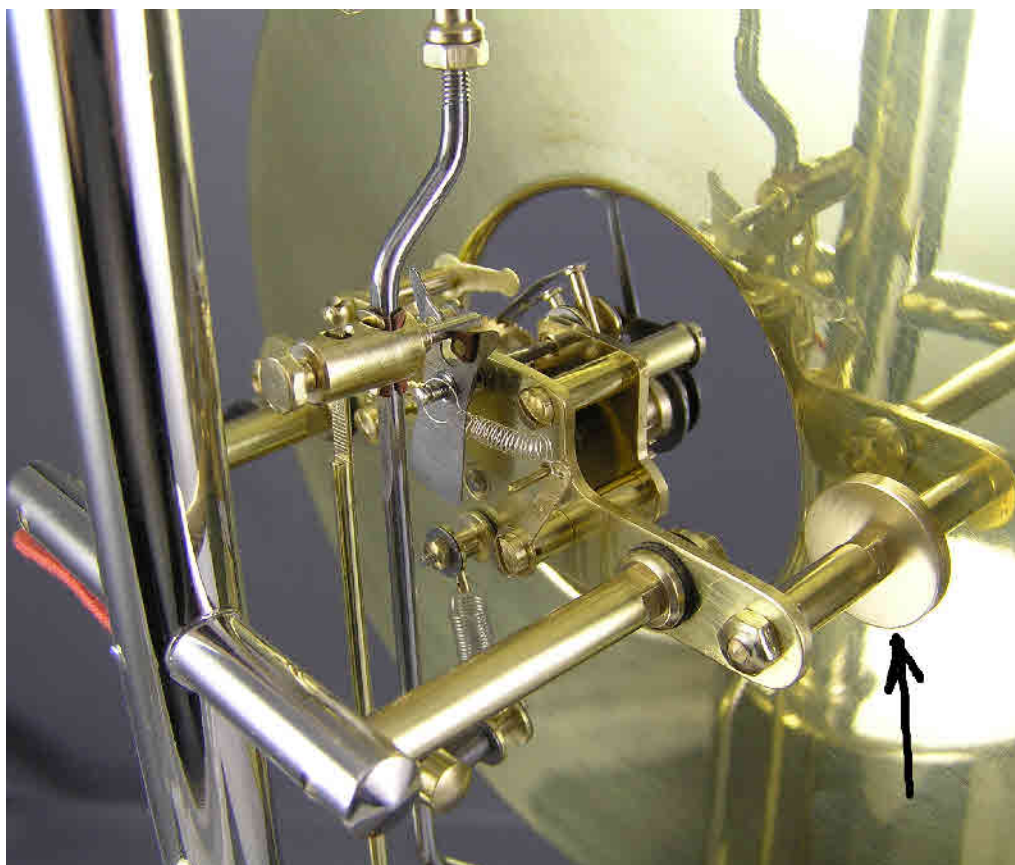
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*The rear of the dial showing
the new dial washers in
place.*



The cleaned dial and hands back in place.

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*The rear of the finished clock.
The contrast is quite evident be-
tween the plated column and the
rest of the movement.*

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The finished clock.