

<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 <a href="mailto:peter_smith@horologix.com">peter_smith@horologix.com</a></p>
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## Eureka Clock Serial Number 3309

# *Restoration of Eureka Clock Serial Number 3309*

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Photos by kind per-  
mission of the own-  
er.

*A short movement clock with the open dial displaying the balance wheel situated behind the movement. The round pressed brass base is in good condition and will only need a wax coat to protect it. There is a temptation when restoring these clocks to remove the gilding and polish up the brass but this should be resisted. As can be seen from the photo the minute hand is broken as well as the battery retainer. The rest of the clock looks to be OK.*



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*This detail shows the remains of the minute hand taped to the base. The battery retainer is in a very bad way and seems to have been eaten through by leaking battery acid. One good thing about this style of Eureka clock is that the battery being housed in an open base, cannot leak acid onto the base itself and so you rarely find base with bad acid damage.*

*In this case though the damage to the retainer is extreme and will require a lot of cleaning and probably brazing which will enable us to deposit some brass to replace the loss. .*



*This photo shows the extent of the damage which has not only eaten through one of the wings but has also left pits in the body of the retainer.*



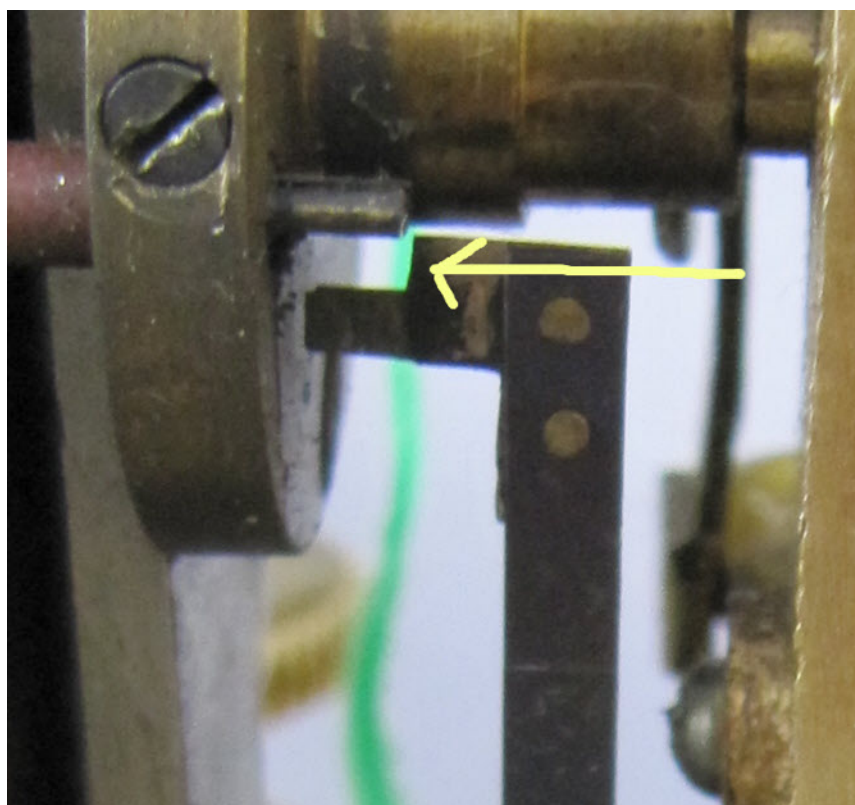
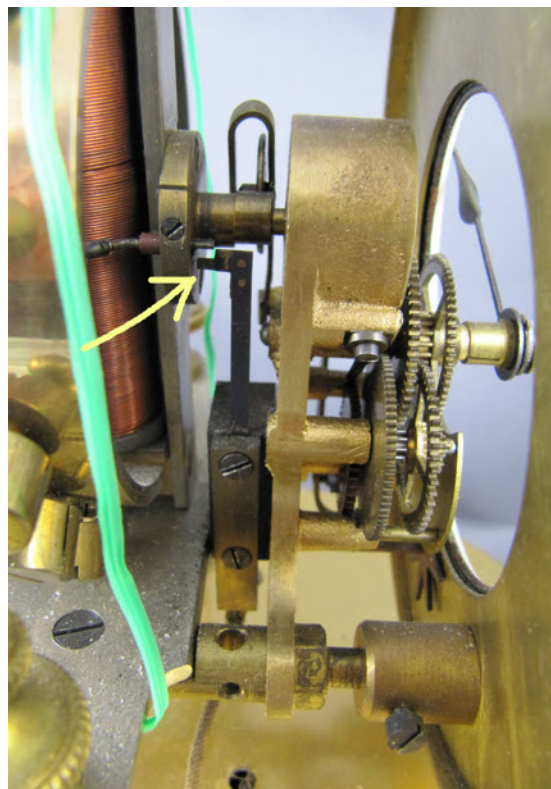
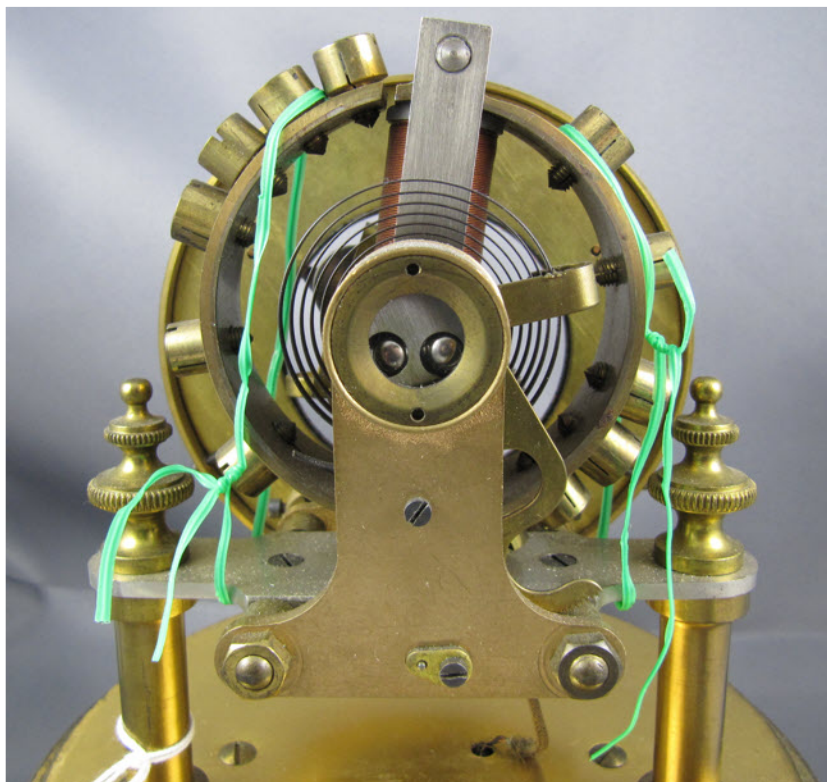
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*The clock was bound in plant ties which did a good job of stopping the balance wheel from swinging in transport. The arrows show the contact flag and the accumulated wear over the decades. We will fit a new contact flag and pin.*



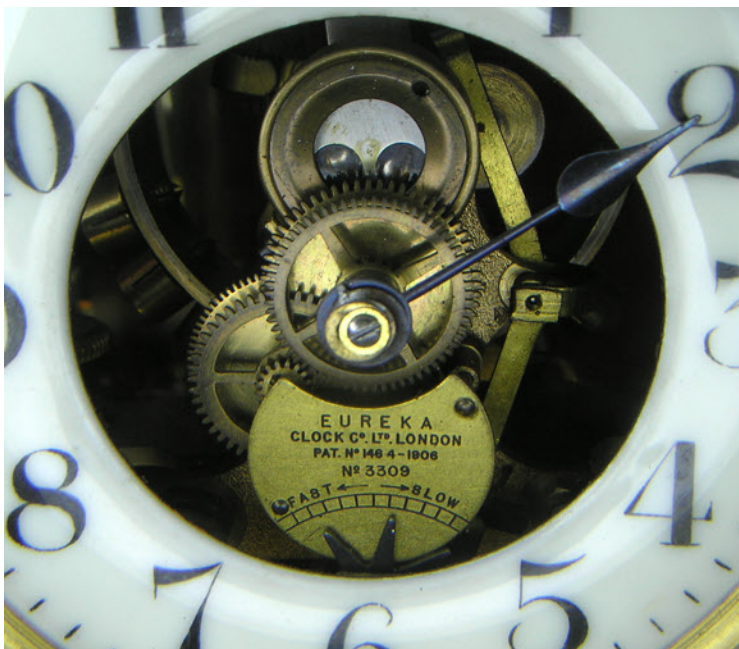
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*The movement s/n plate and star adjusting wheel.*



*The underside of the base shows no sign of damage.*



*The positive lead has been cut nearly through and will need to be replaced.*



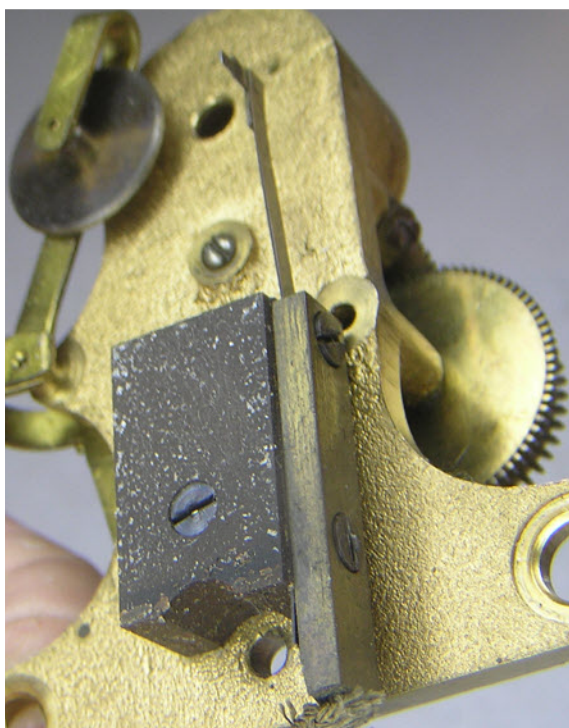
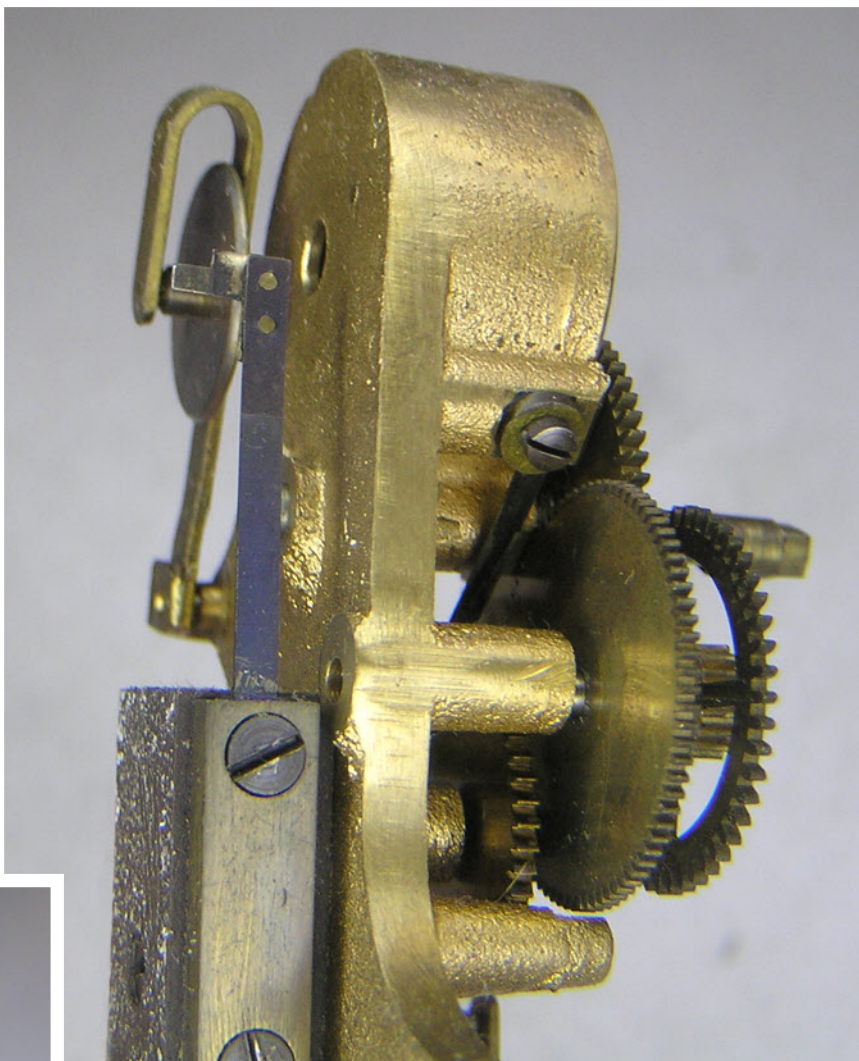
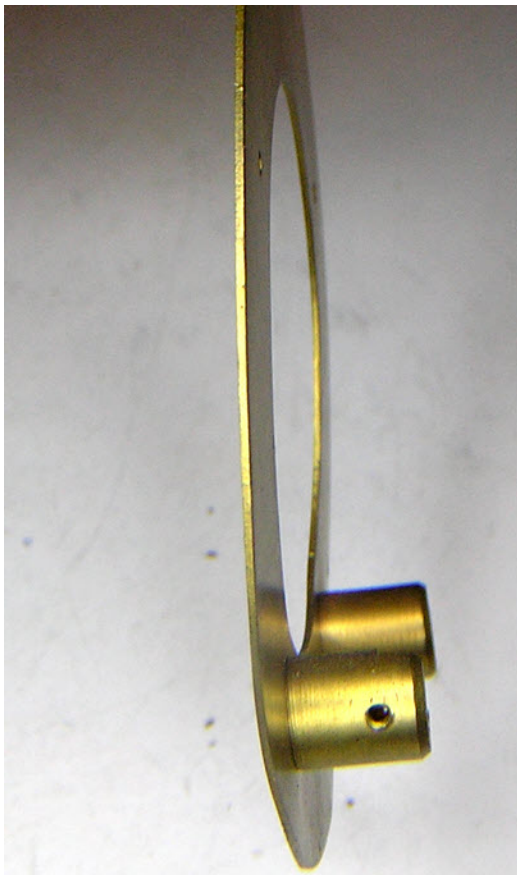
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*The photo top left shows the dial pan which is in a bit of a state. It will require some judicious bending and hammering to straighten it out. The other photos show some detail of the motion work and insulating block that carries the contact flag.*



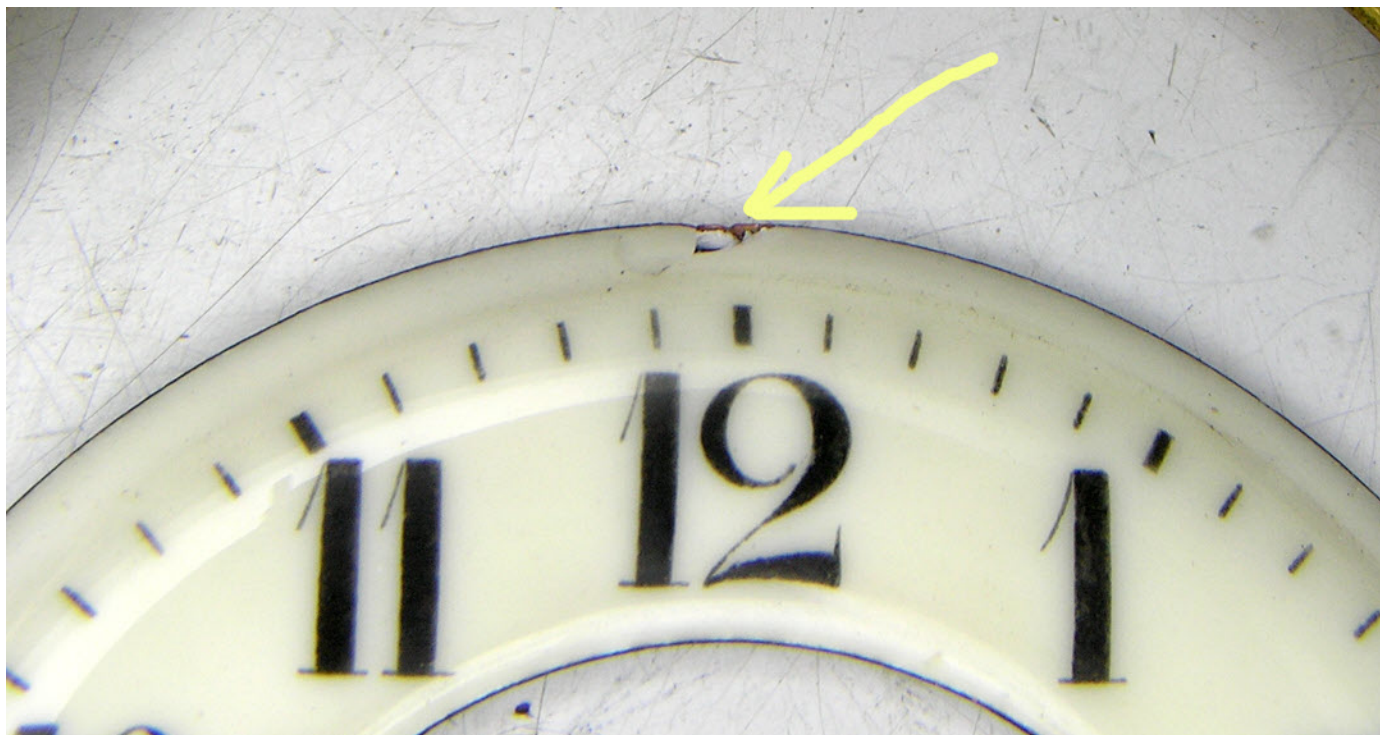
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*On removing the brass dial surround I found that there was a small chip at the twelve o'clock position. Luckily the shard was found at the bottom of the surround and was glued back in place. The brass surround covers this anyway so it will not be seen. The dial was washed in warm soapy water to remove all the grime.*



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*If you ever take a balance wheel apart then you will note that not all of the screws will be the same. Besides the fact that two are dimensionally smaller than the other ten, all of the screws may have been undercut to varying degrees such that they may end up as empty casings. This was done to balance the wheel. Sometimes on or two may be treated this way or sometimes all of them. When removing the screws I number them from one to twelve as per the numbers on a clock face. So that number one is top right and then numbered in a clock wise direction. In the photo top left, The screws at three o'clock and eight o'clock have been undercut slightly to lessen the weight. Rather than try and physically mark the screws with a position I find it easier to use a set of miniature electronic scales that are accurate to a gram and weigh the screws. I then write down the weights with the screws position. It is then a simple matter to weigh the screws when cleaned to ascertain their position..*



*This photo of screws from another clock show the far more extensive undercutting in the screws at one, three, four, six, seven, eight and nine o'clock positions.*



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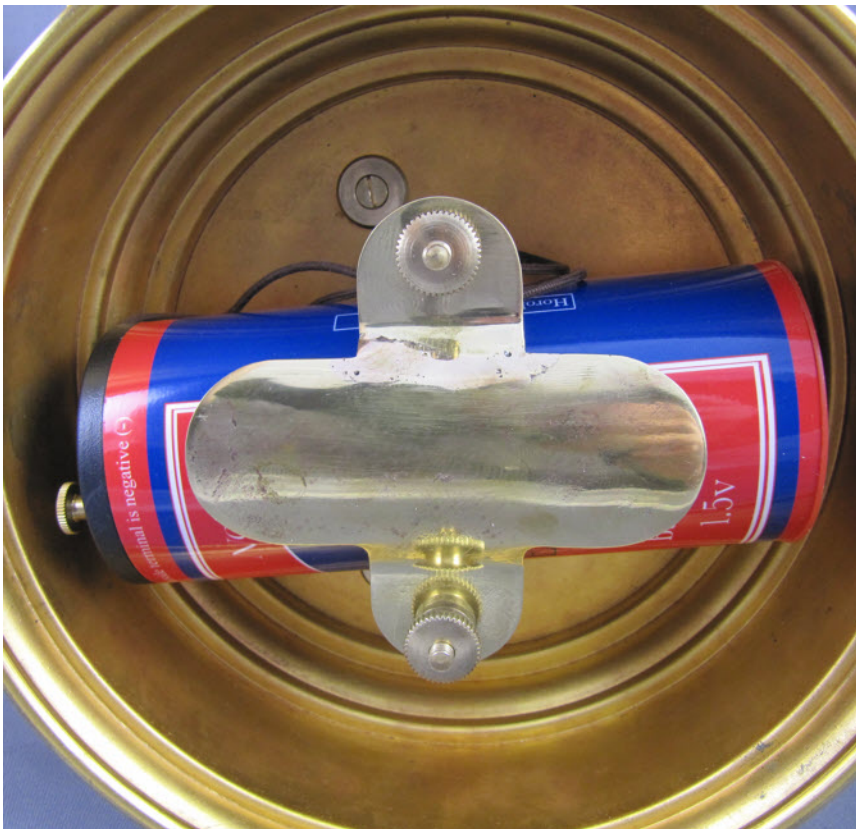
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*The battery clamp after brazing. Note the pits on the underside. The brass has been cleaned and the acid burns removed but there are still pits on the underside. But considering the condition on delivery it's not a bad job. The brazing has deposited a lot of extra brass to recreate the dimensions. It is certainly strong enough to accept the battery and to be screwed down tight. The photo at bottom right shows the rear of the completed clock.*





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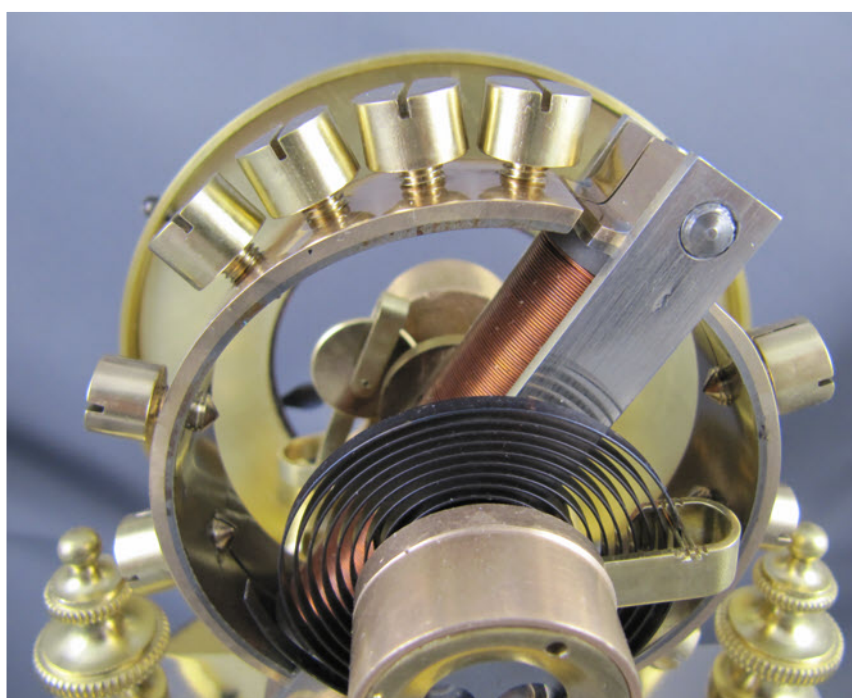
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*The side and rear of the  
completed clock.*





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The completed clock.