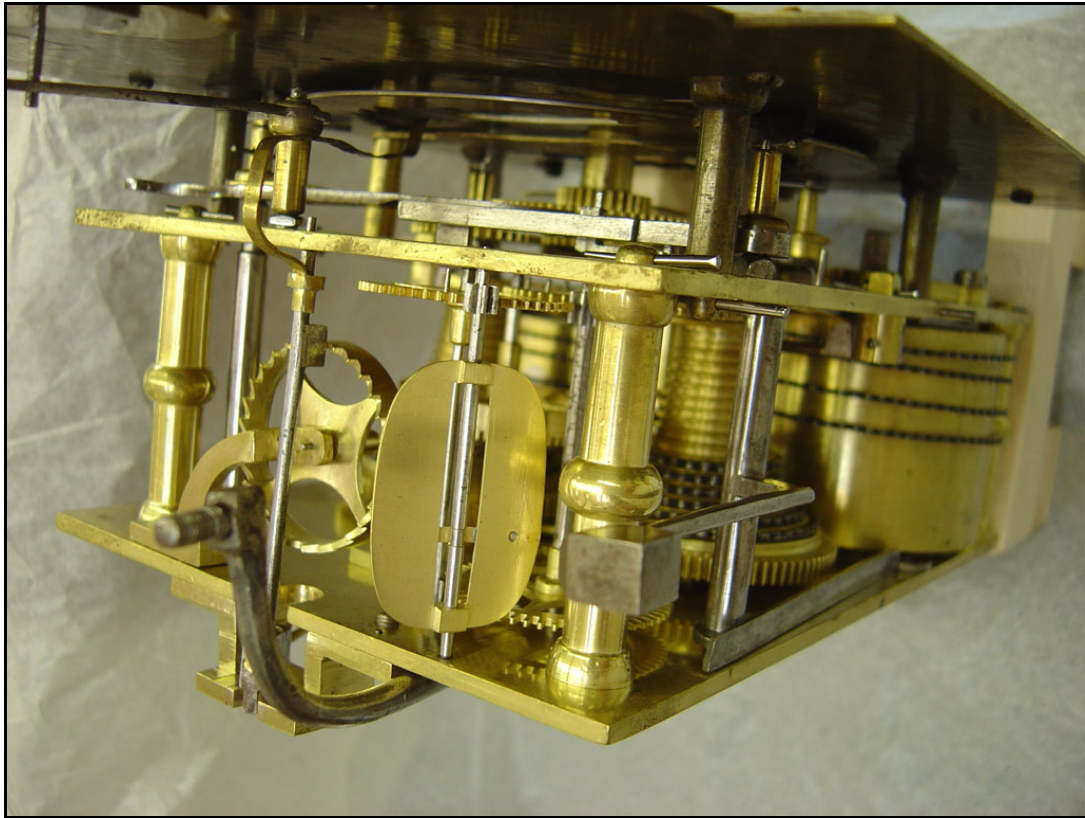




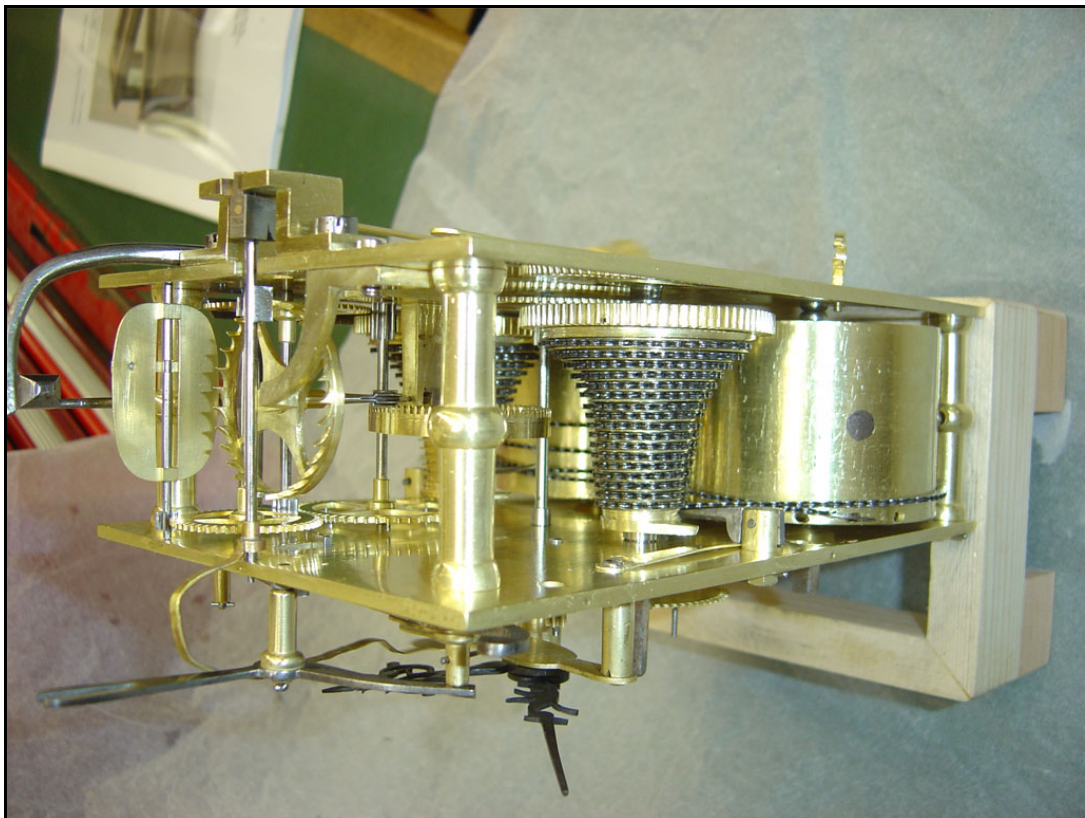
This spring clock was made by William Goodhall in London about 1760, pictured here before any restoration work.

The clock had been converted to a recoil escapement during the Victorian period, as many of this type of clock were. The present owner had it converted back to a verge & crown wheel during the early 1990's, but the clock had been very unreliable since this was completed.

On evaluation of the problems it was found that the crown wheel was of very solid construction and too small in diameter, the pallet angles were incorrect giving the pendulum a very poor arc of swing. It was decided therefore to make a completely new escapement designed from scratch and first principles. The contrate wheel was also heavy in construction but could be made lighter and reused the arbor & pinion needing replacement as they had been poorly made; in fact it meant replacing most of the parts made during the 1990 re-conversion. The potencies were also heavily made but these too could be made much lighter and reused, the pendulum bob would also be replaced. All these components would be made in the style of the mid 18th century and to match as sympathetically as possible with the existing clock work. The case is also very shabby and it would also be fully restored.



These two illustrations show the clock before work commenced above and below the clock nearly complete. Note the new verge and larger and much lighter crown wheel.





The back plate of the clock showing the new pendulum bob, the amplitude of the pendulum swing is now much greater and the escapement is working well.



The clock case after restoration