



Simplifies adjusting clocks

THE POOLE MANUFACTURING COMPANY, Ithaca, N. Y., employs a vacuum-tube circuit application in its factory as a method of regulating pendulum clocks.

A master clock closes an electric circuit at each vibration of the pendulum. This trips a grid-glow tube which allows current to pass and charge a condenser which is subsequently discharged

through the low side of an induction coil. The clocks under test are fixed so that the one terminal of the high-tension coil can be readily connected to the pendulum and the other terminal to a plate which is temporarily placed underneath the pendulum. Consequently, at every beat of the master clock a spark jumps from the pendulum to the plate, thereby giving an indication of the instantaneous position of the pendulum.

As the spark moves in one direction or another it indicates whether the clock under test is gaining or losing.

"By means of this method," explains Arthur F. Poole, vice president and manager, "we can regulate one of our clocks to an accuracy of ten or fifteen seconds a day, in a period of about five minutes."

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