

Note on a Rate-Meter

Publication/Creation

4 Jul 1903

Persistent URL

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Rate-meter

F. 1r

If wheel were 1 mile in Circumference,
it w^d revolve once in an hour when travelling
at the rate of 1 mile per hour

$$\text{If of circumference } C'', \text{ it w^d revolve } \frac{1760 \times 36}{C} \text{ in an hour}$$

$$= \frac{1760 \times 36}{C} \text{ in } 60 \times 60''$$

$$= \frac{17.6}{C} \text{ in } 1'' = 17.6 \text{ times in } C''$$

or once in $\frac{C}{17.6}$ seconds

Hand of the Indicator to be put in gear by same ^{button} stop that starts the chronograph, and to be thrown out of gear by the catch which is struck by the hand of the chronograph, after $\frac{C}{17.6}$ seconds.

Dial of indicator to be graduated, one division to each revolution

The indicator ^{will} point to the number of rev^s accomplished in that time, which is identical with the rate of travel in miles per hour.

A second ^{button} stop causes the hand's both of the indicator and the chronograph, to spring back to zero

