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PROVISIONAL SPECIFICATION.

"Improvements in Apparatus for Indicating Mean Solar Time."

I, GEORGE JAMES GIBBS, of Brownedge, Bamber Bridge, near Preston, in the County of Lancaster, Engineer, do hereby declare the nature of this invention to be as follows:—

This invention relates to instruments by means of which standard mean solar time may be obtained at any place by a simple observation so long as the sun shines. Such instruments I call heliochronometers. By means of a heliochronometer constructed according to my invention I can for instance readily ascertain Greenwich mean time at any place in Great Britain no matter how remote from Greenwich.

The instrument is preferably constructed as follows, a circular disc is mounted on a base ring or other support firmly fixed to some convenient pedestal or foundation in such a position that its axis is parallel to the earth's axis or in other words the plane of the disc is parallel to the plane of the earth's equator. The disc can be turned in the ring about its axis.

Normal to the surface of the disc and rising therefrom are two screens or flat plates of metal situate towards the extremities of a diameter of the disc and approximately at right angles thereto. The arrangement therefore is such that the disc can be turned on its axis until the sun as it shines casts the shadow of one of these screens centrally onto the other screen: the first of them I call