In explaining the subject matter of this circular it may be mentioned at the outset that a conspicuous feature of the design is the total abandonment of all the former methods, of teaching the constellations by rotating within a circle the entire cluster of the universe of stars. Those methods, as is now universally known, had their origin in the early absurd *Ptolemaic* theory or system of the universe, which was exp<sup>1</sup>oded centuries ago by the application of geometrical appliances in observational work.

The present apparatus on the other hand is founded upon the *Copernican* system of the universe, and is closely in unison with all the dynamical doctrines of modern astronomy, and the daily celestial experiences of the passing hour. In fact, the plan adopted is a true copy of the great original itself.

In that plan the sphere with all the stars remains completely stationary and immovable before the eye of the observer. Although, if required, while not solving problems on the position of objects on the Sphere, all the cluster of the stars can be revolved on the axis of the Sphere, which always retains its axial angle and parallelism with the orbit of the earth. But it has to be particularly noted that no single Celestial problem can be accurately solved, or any true likeness traced between the aspect of the model hemisphere of the stars, and the true appearance of the sky on any night, while the Sphere and its axis revolve. To secure, therefore, all the altered conditions made necessary by the new mechanical arrangements of the Sphere, the following plain structural details must be closely attended to, as follows :- Bring the two brilliant stars Alpheratz and Chaph, or better known in astronomy by Gamma Andromeda and Beta Cassiopeia, right below the annual Sidereal meridian, placed at the 20th of March, in the calendar of days in any year selected, and make the axis fast with the stationary screw, then the operator has clearly before him a true projection of all the hemispherical