balance that can accurately measure the force on the magnet inside the tube. This force measurement can be used to determine fluid density, flow, viscosity, and solubility.

Magnetic levitation or suspension creates a problem when the levitated object itself needs to be powered, for example when the levitated object is arranged as a light source. The levitated object, may be connected to an external power source such as to mains power by means of an electric wire. If, however, the goal is to have an object suspended without any mechanical links to other objects, leaving out any wired connection to external devices is required. For this purpose the suspended light source may configured to have its own power source in order to operate autonomously. The suspended light source may therefore be powered by batteries for example. Other options comprises using a wireless power source such as the sun for charging the batteries during the day using solar cells, and getting power by the charged batteries during the night.

Another method for providing power to a suspended object is described in USA patent application 2009/0309440A1 by Lieberman, wherein a system and method for device suspension and wireless power transmission are disclosed. According to one embodiment an apparatus comprises a suspended object having a wireless receiving circuit. A wireless transmission circuit is configured to transmit power to the wireless receiving circuit housed in the suspended object. A magnetic stabilization mechanism is beneath and not in contact with suspended object. A circuit is configured to magnetically control a position of the suspended object.

A different approach is followed by Crealev B.V., The Netherlands, which shows a design having a floating shade which reflects or distributes light originating from a wired light source. Crealev's levitation technology uses repelling magnets combined with electronics to keep levitated objects in position. This solution does not require a power source in the suspended part, because the suspended part does not have the function as a light source.