

**Title of Invention: Medical Treatment Systems, Methods, and Apparatuses Using a
Plurality of Fluid Lines**

ABSTRACT

A volumetric standard cassette for calibration of a cassette based pumping system has a rigid body configured to be sealing installed within the cassette based pumping system. The rigid body includes a midbody and a number of solid pump chambers regions each having a predefined geometry defining a known volume of the pump chamber region. The rigid body is flow path and orifice free.

[FIG. 66A]