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(54) Title: VISCOSITY MEASURING APPARATUS AND METHOD OF USE (57) Abstract A blood viscosity measuring system and method that monitors the rising head of a column of fluid representing a living being's blood in vivo to determine the blood viscosity over a range of shears. The system includes a capillary tube, at least a portion of which is located within the vascular system of the being, and a riser tube, having a liquid therein coupled to the capillary tube. A sensor and associated microprocessor are provided to determine the change in the height of the liquid in the riser tube at plural points along the length of the tube from which the viscosity is calculated.		