ABSTRACT

~~Provided is a stirring body that generates a plurality of flows including a circulating flow, a turbulent flow, and the like to stir a fluid medium in a complexly unsteady manner, enables adjustment of the flow of a stirring flow to match the purpose, exhibits low shear, and can be simply manufactured. The stirring body is characterized by comprising a flat plate in which a plurality of spiral blade sections extending from a central section are formed by the incision of spiral shapes that do not adjoin an outer peripheral section, and an actuation member that supports the flat plate, wherein one of the actuation member and the outer peripheral section of the flat plate can move in a direction of relative separation and a direction of relative approach to the other, and in coordination with movement in the direction of relative separation, the blade sections rise while separating from the neighboring blade sections and the flat plate extends, thereby forming a three dimensional shape.~~ The fluorescence measuring device includes a continuous light source 2, an excitation light irradiation unit 3, an excitation light intensity detection unit 4, a photon counting type fluorescence detection unit 5, a rectangular wave modulation circuit 6 of the continuous light source, a timing circuit 7 that generates a rectangular wave pulse to be supplied to the rectangular wave modulation circuit and a gate pulse for signal processing, a gate counter circuit 8 that counts fluorescence photon pulse signals during the gate pulse period, a physical parameter information acquisition unit 9, and a concentration calculator 10. By digitally processing digital signals with this configuration and accurately digitally calculating and subtracting the current background photon count conversion value, it is possible to perform highly sensitive and highly accurate quantification by appropriately removing the influence of the background.

[Figure 2A, Figure 2B and Figure 2C]