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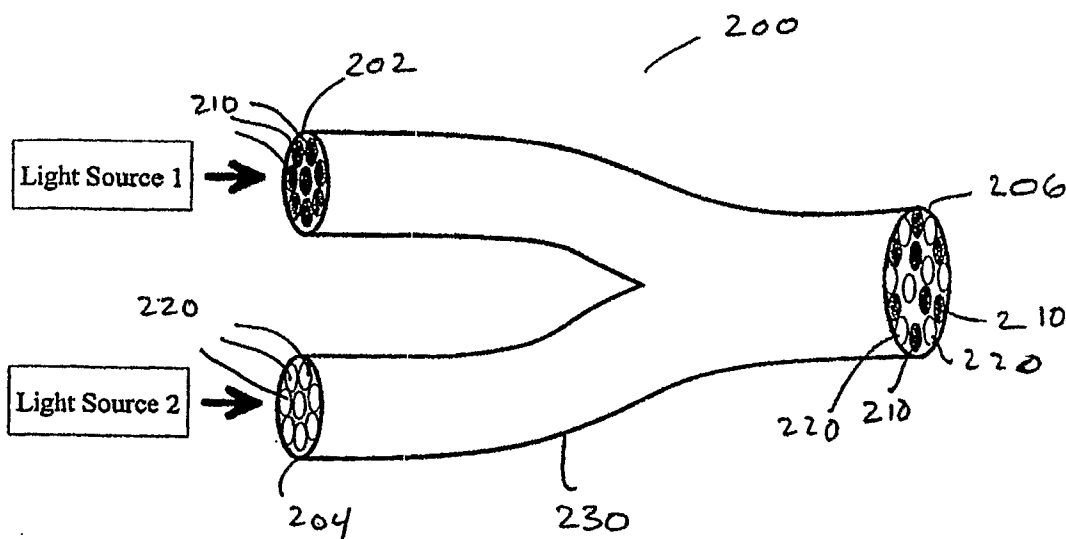
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(54) Title: PHOTOPLETHYSMOGRAPHY WITH A SPATIALLY HOMOGENOUS MULTI-COLOR SOURCE



(57) Abstract: An apparatus for spatially homogenizing electromagnetic energy transmitted from different sources for measuring a physiological parameter. The apparatus includes a structure for spatially homogenizing the electromagnetic energy transmitted from a first source with the electromagnetic energy transmitted from a second source to form a spatially-homogenized multi-source electromagnetic energy; and an outlet for delivering the spatially-homogenized multi-source electromagnetic energy to a tissue location for measuring the physiological parameter.

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