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**Carlson et al.**

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(54) **INCREASING THE PERFORMANCE OF AN OPTICAL PULSOXIMETER**

(52) **U.S. Cl. .... 600/323; 600/336**

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(57) **ABSTRACT**

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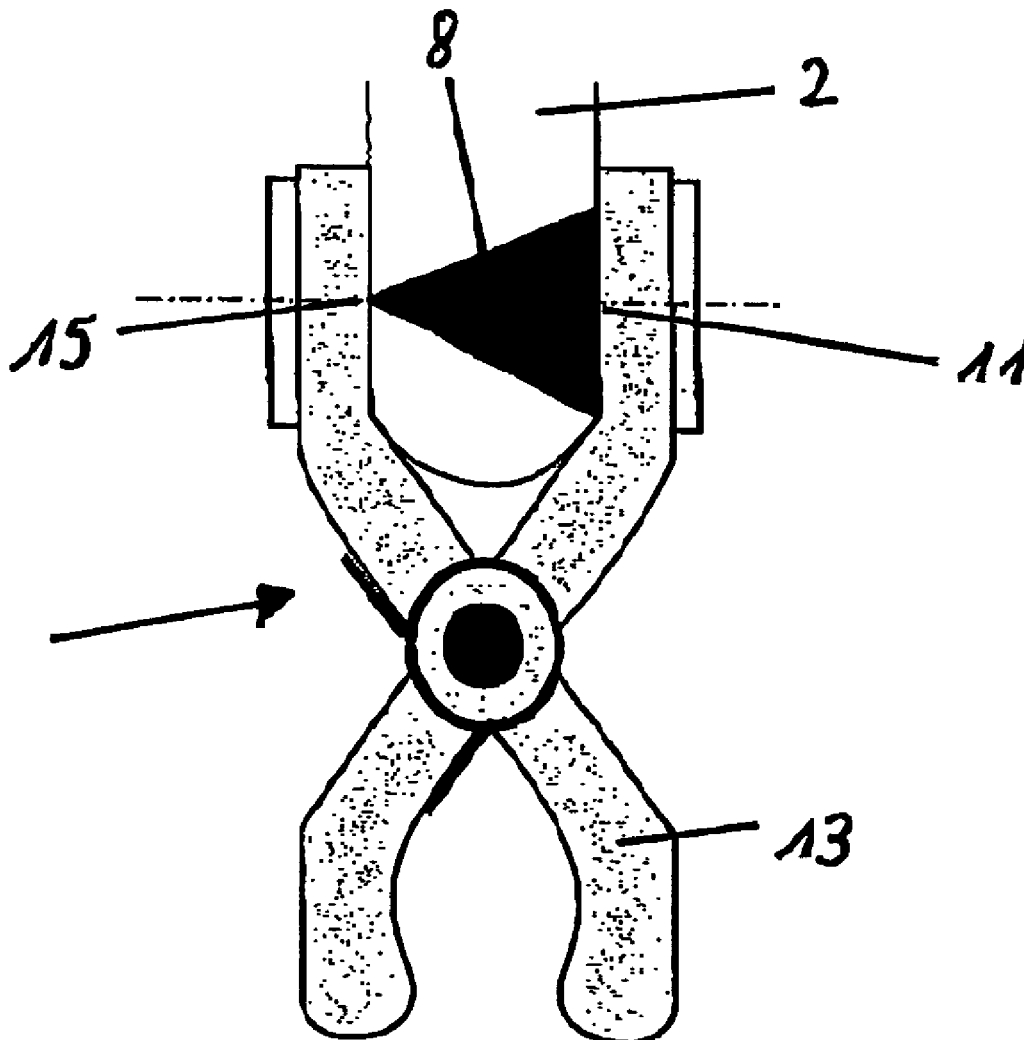
Proposed is a configuration for the acquisition and/or monitoring of medical data, in particular the state of the cardiovascular and pulmonary system, blood values or blood composition, characterised by at least one measuring sensor for the acquisition of the medical data such as the state of the cardiovascular system, etc. of a person comprising at least one light source which can emit light at least at two wavelengths, as well as at least one light receiver for determining the light transmitted and/or reflected through a tissue portion of a person or an animal further comprising means in order to increase the optical Signal-to-Noise and/or Signal-to-Background ratio.

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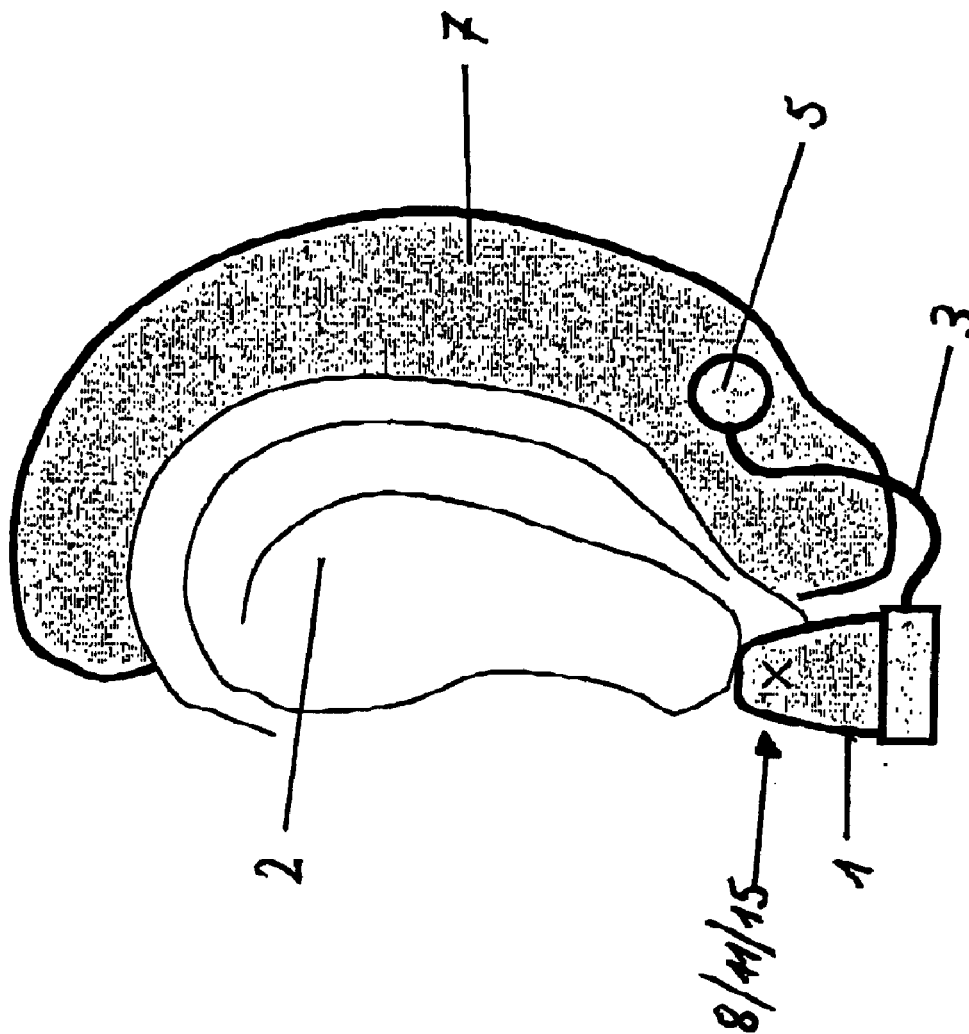


Figure 1

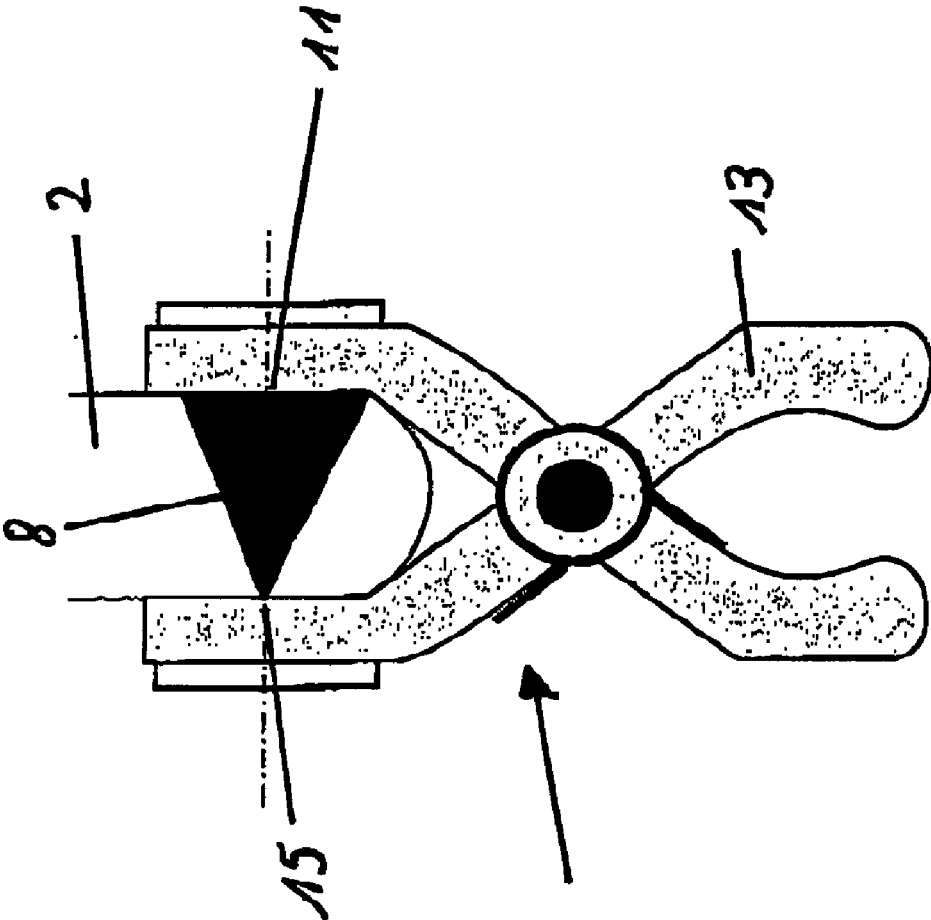


Figure 2

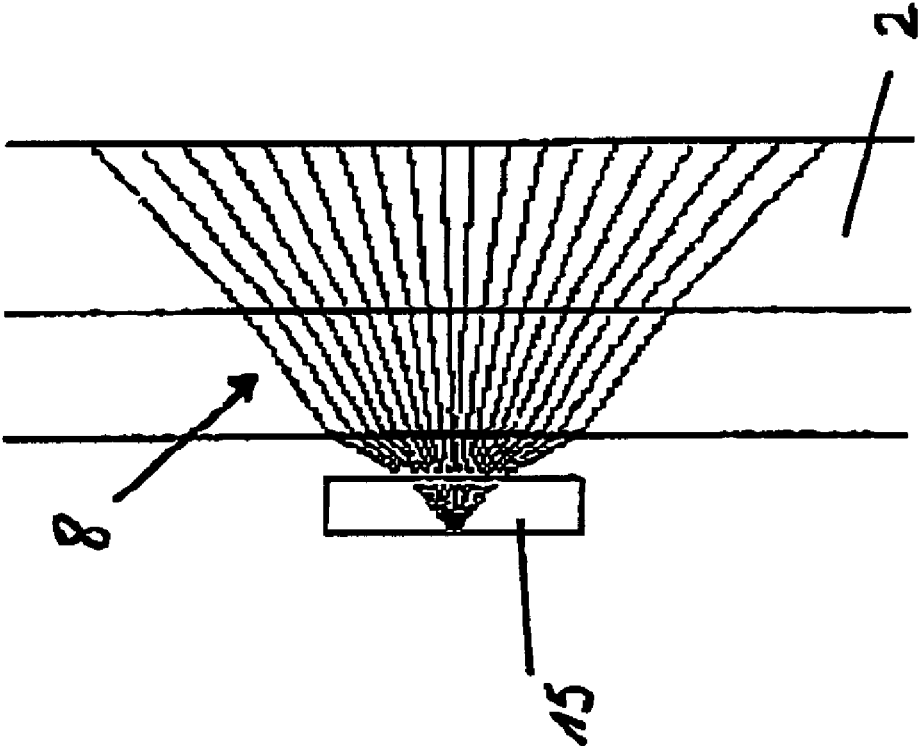


Figure 3

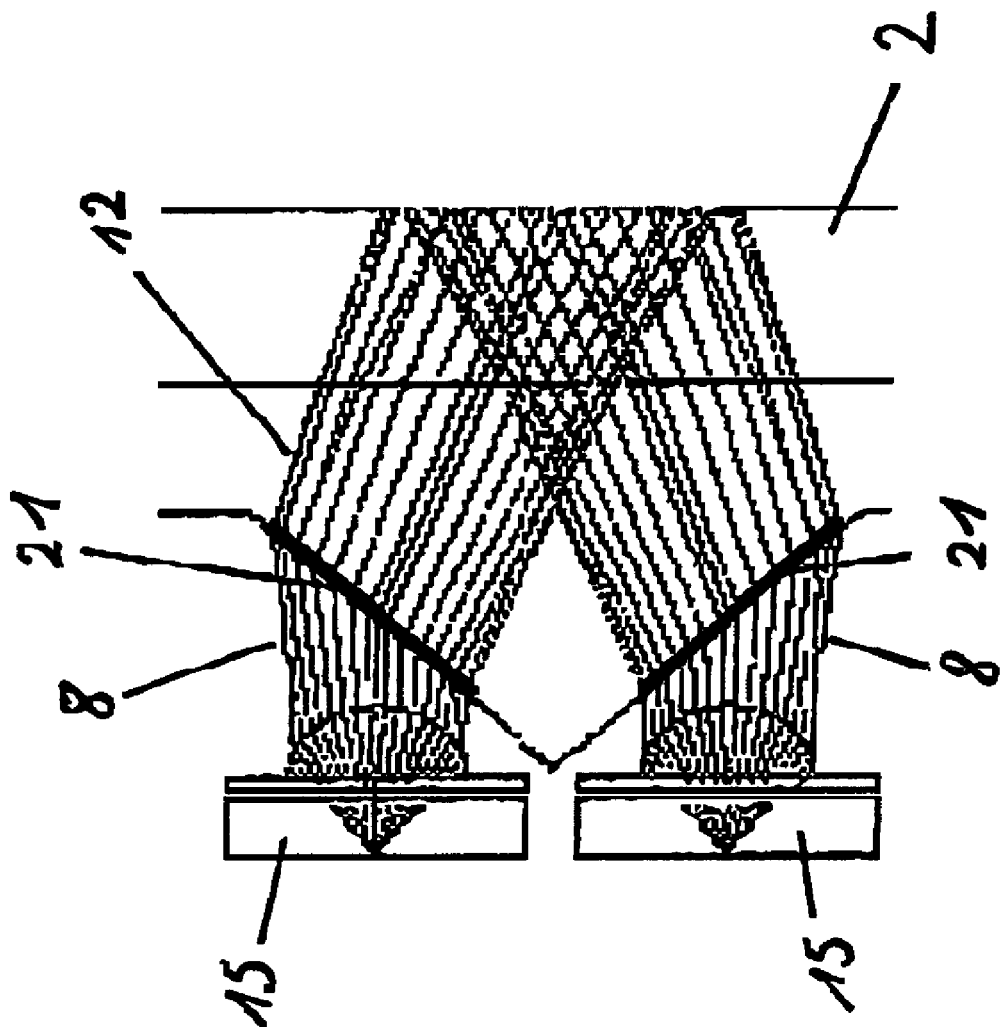


Figure 4

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