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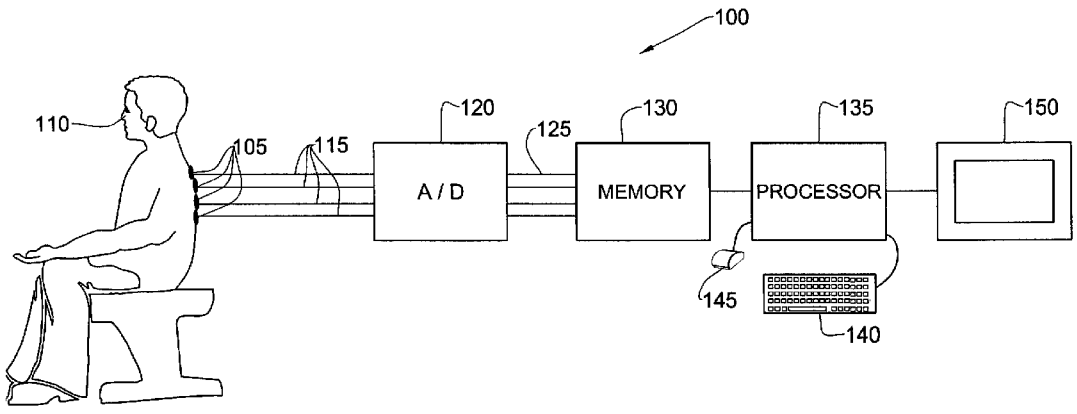
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(54) Title: SYSTEM FOR ANALYZING AND IMAGING RESPIRATORY TRACT SOUNDS



(57) Abstract: A system (100) for analyzing respiratory tract sounds in an individual (110). A plurality of N transducers (105) are fixed over the thorax. The ith transducer is fixed at a location x_i, and generates a signal $P(x_i, t)$ indicative of pressure waves at the location x_i, for i=1 to N. A processor (135) receives the signals $P(x_i,t)$ and determines an average acoustic energy $P(x,t_1,t_2)$ at at least one position x over a time interval where P is determined in an algorithm involving at least one of the signals $P(x_i,t)$.

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