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(54) Title of the invention : MICRO-STRIP ANTENNA APPLICATION SYSTEM FOR USE IN BREAST CANCER DETECTION

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(57) Abstract :

Present invention relates to a micro-strip antenna application system for use in Breast cancer detection. The System can include a microwave transmitting antenna, a receiving antenna, and a signal processor. The transmitting antenna and the receiving antenna can be positioned about a breast and can be adjusted relative to one another. The Signal processor can determine a presence of a tumor within the breast based upon computations involving microwave energy transmitted by the transmitting antenna, microwave energy received by the receiving antenna, and the relative positions of the transmitting antenna and the receiving antenna. The System can include an antenna array that can determine a position of the transmitting antenna and/or the receiving antenna. In such an embodiment, the antenna array is not physically linked to the transmitting antenna. Following invention is described in detail with the help of Figure 7 of sheet 3 showing breast cover cap for breast with rectangular micro-strip antenna and Figure 8 of sheet 4 showing block diagram of scanning system.

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