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(54) **Title:** MICROWAVE TREATMENT OF TISSUE

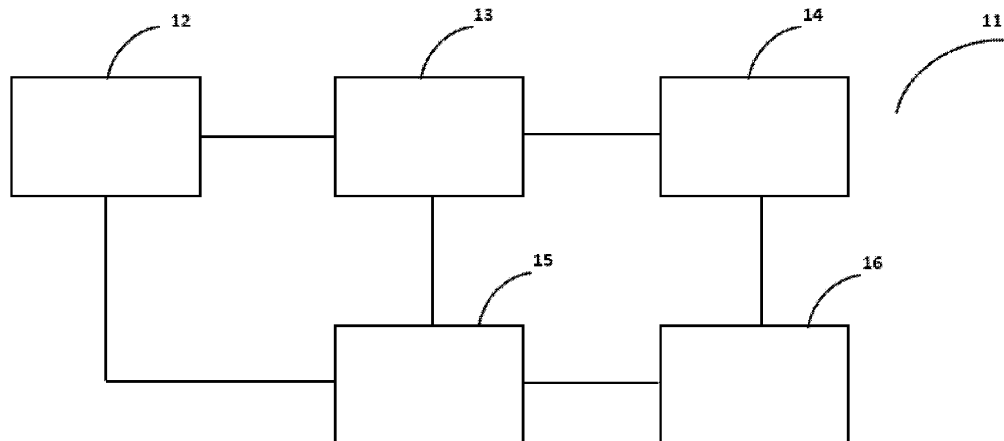


Figure 1

(57) **Abstract:** The disclosure is based on the finding that microwave energy may be used to modulate, for example up- or down-regulate the expression of certain genes. For example, where a disease or condition is associated with the aberrant expression of a particular gene or genes, microwave energy may be used to modulate the expression of those genes, thereby resolving and/or improving one or more of the symptoms of the disease or condition. Disclosed is a microwave system or microwave-generating apparatus, for use in a method of modulating the expression of one or more genes. Also disclosed are uses of microwave energy for modulating the expression of one or more genes in tissues, tissue samples and biopsies.

[Continued on next page]

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