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[54] **SONICATED BORRELIA BURGENDORFERI VACCINE**

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435/173.9

[58] **Field of Search** 424/88, 92, 234.1;
435/173, 173.7, 173.9

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[57]

ABSTRACT

A process for the preparation of a vaccine from substantially
viable spirochetal bacteria of *Borrelia*, preferably *Borrelia*
burgdorferi having immunogenic or therapeutic properties
and capable of inducing an immune or therapeutic response
against Lyme Disease when administered to a patient is
described. The product for use against Lyme Disease is
produced by ultrasound treatment of substantially viable
spirochetal bacteria of *Borrelia burgdorferi*. The invention
produces a product and a method of treatment that can be
used for the immunization and/or therapy of a patient against
Lyme Disease to minimize or prevent the contraction of the
disease or to treat the disease.

16 Claims, 7 Drawing Sheets