THIS SHEET HAS BEEN REPLACED

ABSTRACT

METHOD AND APPARATUS FOR EVALUATING THE PROGRESS OF OSTEOPOROSIS BY ULTRASONIC SIGNALS

An ultrasonic signal is transmitted to a heel bone or patella of a person being examined to obtain data of velocity of transmission propagation. The data which is obtained is computerized through calculation to compute a two-dimensional ratio of a compact bone to a bone structure (Au) from a one-dimensional ratio of a compact bone to a bone structure (Eu). Then, a chart is drawn to suffice an Au for which a fractal geometry is utilized to compare the chart with an image of an Au of a healthy person who is under the same condition in sex and age. The portions different from each other are then sorted by color for evaluating the progress of osteoporosis.

(Figure 1).

This Sheet Has Been Replaced

