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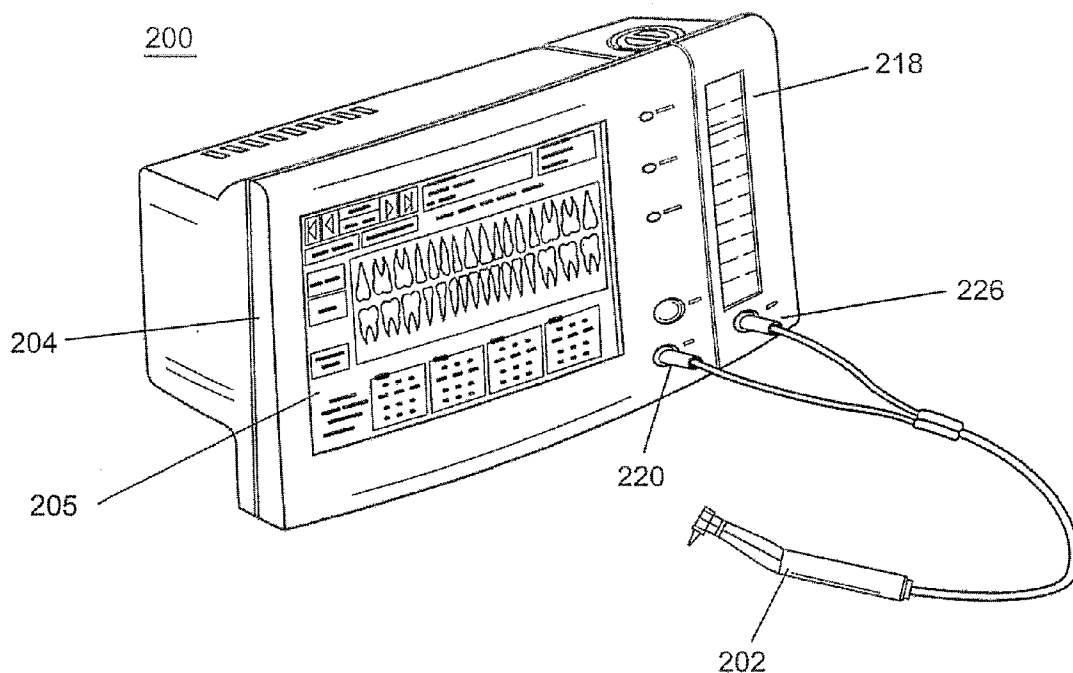
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(54) Title: ULTRASONIC PERIODONTAL DEVICE, SYSTEM AND METHOD OF USING



(57) Abstract: System and methods of detecting and measuring periodontal disease comprising filling a periodontal pocket with a fluid capable of propagating sound waves, transmitting a sound wave into the periodontal pocket, sensing the return sound wave from the periodontal pocket, and determining the depth of the pocket by measuring the time it takes the at least one transmitted sound wave to traverse the periodontal pocket and return. A peak discrimination analysis algorithm is also provided.

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