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- What is claimed is:
1. A system adapted to measure in a human subject a state along a continuum relating to alertness, drowsiness, sleep, unconsciousness, or anesthesia comprising:
 - means for acquiring a brain-wave signal having rhythmic components from the subject;
 - means for selecting components of said brain-wave signal lying in a predetermined range of frequencies including frequencies above 30 Hz;
 - means responsive to said selecting means for determining a contribution to said brain-wave signal due to said components lying in said range; and
 - means responsive to said contribution-determining means for producing an output-measure signal indicative of said state of the subject.
 2. A system adapted to measure in a human subject a state along a continuum relating to alertness, drowsiness, sleep, unconsciousness, or anesthesia comprising:
 - means for acquiring a brain-wave signal having rhythmic components from the subject;
 - means for defining a range of frequencies including frequencies above 30 Hz;