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Melker et al.

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(54) **METHOD AND APPARATUS FOR
DIAGNOSING RESPIRATORY DISORDERS
AND DETERMINING THE DEGREE OF
EXACERBATIONS**

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(52) **U.S. Cl.** **600/484; 600/500; 600/529**

(58) **Field of Classification Search** **600/300,**
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See application file for complete search history.

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(57) **ABSTRACT**

Disclosed herein are apparatuses and methods to monitor respiration and abnormal respiration events utilizing plethysmography. The apparatuses and methods provide an alternative to conventional respiration monitoring methods while enabling accurate yet minimally interruptive and invasive monitoring of respiration. The methods and apparatuses may be employed in the context of sleep studies to determine respiratory related sleep disorders.

17 Claims, 7 Drawing Sheets

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