

Title (en)  
BREATH TEST APPARATUS AND METHODS

Title (de)  
GERÄT UND VERFAHREN FÜR ATEMUNTERSUCHUNGEN

Title (fr)  
APPAREIL ET PROCEDES DE TEST D'HALEINE

Publication  
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Application  
**EP 01919740 A 20010404**

Priority  
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Abstract (en)  
[origin: WO0175439A2] Breath test methods and apparatus for increasing accuracy and reducing the time taken to achieve diagnostically meaningful results. In order to determine, in the shortest time possible, when an increase in isotopic ratio of the exhaled breath is clinically significant, methods are described for the use of a variable and multiple threshold level; for reducing the time taken to determine an accurate baseline level; and for avoiding the effects of oral activity when making measurements. To increase measurement accuracy, methods are described, using the results of the breath tests themselves, of continuous and automatic self-calibration to correct for drifts in the gas spectrometer absorption curves.

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**G01N 33/497; A61B 5/083**

IPC 8 full level  
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Citation (search report)  
See references of WO 0175439A2

Citation (examination)  
• SCHOMMARTZ B.; ZIEGLER D.; SCHADEWALDT P.: "Significance of Diagnostic Parameters in [13C]Octanoic Acid Gastric Emptying Breath Tests", ISOTOPES ENVIRON. HEALTH STUD., vol. 34, no. 1-2, 1998, NL, pages 135 - 143  
• CORNETTA A.M. ET AL: "Use of a [13C]urea breath test for detection of gastric infection with Helicobacter spp in dogs", AMERICAN JOURNAL OF VETERINARY RESEARCH, vol. 59, no. 11, November 1998 (1998-11-01), USA, pages 1364 - 1369  
• SHREEVE W.W. ET AL: "Test for alcoholic cirrhosis by conversion of [14C]- or [13C]galactose to expired CO2", GASTROENTEROLOGY, vol. 71, no. 1, July 1976 (1976-07-01), USA, pages 98 - 101  
• LOTTERER E. ET AL: "The simplified 13C-urea breath test - One point analysis for detection of Helicobacter pylori infection", ZEITSCHRIFT FOR GASTROENTEROLOGIE, vol. 29, no. 11, November 1991 (1991-11-01), DE, pages 590 - 594

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