

Title (en)  
METHOD AND APPARATUS FOR EFFECTIVE LUNG VOLUME ESTIMATION

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR EFFEKTIVEN LUNGENVOLUMENSCHÄTZUNG

Title (fr)  
PROCEDE ET APPAREIL D'ESTIMATION DE VOLUME PULMONAIRE EFFECTIF

Publication  
**EP 1805681 A1 20070711 (EN)**

Application  
**EP 05809890 A 20051020**

Priority  
• US 2005037735 W 20051020  
• US 97381504 A 20041025

Abstract (en)  
[origin: WO2006047212A1] Methods for noninvasively measuring, or estimating, functional residual capacity or effective lung volume include obtaining carbon dioxide and flow measurements at or near the mouth of a subject. Such measurements are obtained during baseline breathing and during and shortly after inducement of a change in the subject's effective ventilation. The obtained measurements are evaluated to determine the amount of time required for exhaled carbon dioxide levels to return to normal-effectively an evaluation of carbon dioxide "washout" from the subject's lungs. Conversely, carbon dioxide and flow measurements may be evaluated to determine the amount of time it takes carbon dioxide to "wash in," or reach peak levels within, the lungs of the subject following the change in the subject's effective ventilation. Apparatus for effective such methods are also disclosed.

IPC 8 full level  
**G06F 19/00** (2006.01); **A61B 5/083** (2006.01); **A61B 5/091** (2006.01)

CPC (source: EP)  
**A61B 5/0836** (2013.01); **A61B 5/091** (2013.01)

Citation (search report)  
See references of WO 2006047212A1

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**WO 2006047212 A1 20060504**; EP 1805681 A1 20070711; JP 2008517655 A 20080529

DOCDB simple family (application)  
**US 2005037735 W 20051020**; EP 05809890 A 20051020; JP 2007538028 A 20051020