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APPAREIL SE RAPPORTANT À LA SURVEILLANCE DU MÉTABOLISME

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(56) References cited:  
**WO-A1-2014/116604 WO-A1-2015/011714**  
**US-A- 2 630 798 US-A- 4 368 740**  
**US-A1- 2009 227 887 US-A1- 2011 009 764**  
**US-A1- 2014 128 691 US-B1- 6 884 222**

• **M. M. REEVES ET AL: "Reducing the time period  
of steady state does not affect the accuracy of  
energy expenditure measurements by indirect  
calorimetry", JOURNAL OF APPLIED  
PHYSIOLOGY., vol. 97, no. 1, 12 March 2004  
(2004-03-12) , pages 130-134, XP055292998, US  
ISSN: 8750-7587, DOI:  
10.1152/jappphysiol.01212.2003**

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