

Title (en)  
Method for determining the position of a movable device in an underground borehole

Title (de)  
Verfahren zur Positionsdetektion von bewegten Objekten im Bohrloch

Title (fr)  
Procédé pour déterminer la position d'un objet en mouvement dans un puits

Publication  
**EP 1830035 A1 20070905 (EN)**

Application  
**EP 06110542 A 20060301**

Priority  
EP 06110542 A 20060301

Abstract (en)  
A method for determining the position of a moveable device within an underground borehole which is filled with a fluid, the method comprising: - determining the travel time ( $A_t$ ) of a signal transmitted through the fluid between the moveable device and a signal processing unit having a known location within or in the vicinity of the borehole, such as at the wellhead; - assessing the velocity of the signal ( $v$ ) through the borehole fluid; and - determining the distance ( $d$ ) between the moveable device and the signal processing unit by multiplying the measured travel time and the assessed velocity of the signal, ( $d=v \cdot A_t$ ).

IPC 8 full level  
**E21B 47/09** (2012.01)

CPC (source: EP)  
**E21B 47/095** (2020.05)

Citation (search report)

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