

Title (en)  
METHOD FOR MEASURING THE WATER LEVEL OF A BODY OF WATER

Title (de)  
VERFAHREN ZUR MESSUNG DES WASSERSTANDS EINES GEWÄSSERS

Title (fr)  
PROCÉDÉ DE MESURE DE LA PROFONDEUR D'UNE NAPPE D'EAU

Publication  
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Application  
**EP 11701634 A 20110113**

Priority  
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• EP 2011050372 W 20110113

Abstract (en)  
[origin: CA2787896A1] The invention relates to a method for measuring the water level of a body of water. For this purpose, a reflector (1, 101, 201, 301, 401, 501) is used, which comprises a number of reflection surfaces (1a, 1b) for reflecting electromagnetic radiation in a predetermined wavelength region and which is provided in or at the body of water such that a corner reflector is formed by the water surface (W) of the body of water and one or more reflection surfaces (1a, 1b) of the reflector (1, 101, 201, 301, 401, 501). Within the scope of the method, electromagnetic radiation in the predetermined wavelength region that is emitted by a radiation device (3) located above the body of water shines on the reflector (1, 101, 201, 301, 401, 501) such that the incident radiation is reflected on the corner reflector on the basis of multiple reflections, taking into consideration the water surface (W). The distance between the radiation device (2) and reflection center of the corner reflector is measured over a propagation time of the emitted and reflected radiation, and the water level (W) of the body of water is determined on the basis thereof.

IPC 8 full level  
**G01F 23/00** (2006.01)

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Citation (search report)  
See references of WO 2011092056A2

Citation (examination)  
• DE 889617 C 19530910 - GASACCUMULATOR SVENSKA AB  
• JP 2001177335 A 20010629 - TOOTEKKUSU KK

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