

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1 US 2008/087769 A1 (JOHNSON WILLIAM M [US]) 17 april 2008
(2008-04-17)

D1 is regarded as being the prior art closest to the subject-matter of claim 1, and discloses an

attitude determination system (para [0013]), connected or connectable to a power source and comprising multiple sensors (para [0047],[0053]) for measuring attitude-signals, a computation unit for calculating the attitude from the measurement signals of the multiple sensors and a transmission system for entertaining communication between the multiple sensors and the computation unit (para [0047]), wherein the sensors have a variable sampling rate and the system comprises an energy manager module for saving on energy consumption by determining the value of the variable sampling rate of the sensors (para [0071]).

The subject-matter of claim 1 therefore differs from this known system in that

said energy manager module determines the value of the variable sampling rate depending on an *estimated measurement error in the calculated attitude*

and is therefore new.

The problem to be solved by the present invention may be regarded as decreasing energy consumption while maintaining high accuracy in attitude determination.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step as none of the prior art documents discloses an attitude determination system wherein the deviation error is included in the feedback loop for setting the sensor sample rates. It is in no way obvious to the skilled person to introduce these features in the system of D1.