

Title (en)

DETERMINATION OF THE RECEPTION TIME FOR AN ULTRASOUND SIGNAL BY MEANS OF PULSE SHAPE DETECTION

Title (de)

BESTIMMUNG DES EMPFANGSZEITPUNKTS EINES ULTRASCHALLSINGALS MITTELS PULSFORMERFASSUNG

Title (fr)

DETERMINATION DE L'INSTANT DE RECEPTION D'UN SIGNAL ULTRASONORE PAR DETECTION DE FORME D'IMPULSION

Publication

**EP 1754025 A2 20070221 (DE)**

Application

**EP 05733644 A 20050421**

Priority

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Abstract (en)

[origin: WO2005114112A2] The invention relates to an ultrasound flow sensor, comprising at least one ultrasound converter (A,B) for the transmission and receiving of ultrasound signals (A0,B0) and a receiver unit (4) arranged on the ultrasound converter (A,B) which detects a zero transition (N) of the ultrasound signal (A0,B0) as reception time, after the ultrasound signal (A0,B0) has exceeded a given threshold value (SW). The measurement accuracy of the sensor can be significantly improved, if the receiver unit (4) detects the time of a parameter characterizing the ultrasound signal (A0,B0) and records the relative time shift (deltat) of the characteristic parameter (Ampmax,Ts) as the zero transition (N0 or N1) detected as reception time (to).

IPC 8 full level

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