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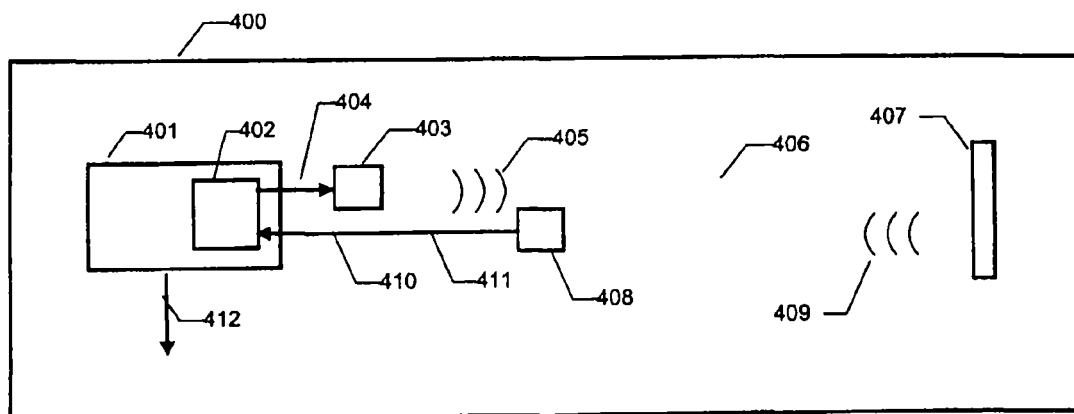
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(54) Title: ARRANGEMENT AND METHOD FOR MEASURING THE SPEED OF SOUND



(57) Abstract: The invention relates to an arrangement for measuring the speed of sound, the arrangement comprising: an electrical pulse generating means (402) for generating an output electrical pulse signal (404), a transmitting transducer (403) for converting said output electrical pulse signal (404) into an output acoustic pulse signal (405), a reflector (407) for reflecting said output acoustic pulse signal (405), thereby producing a reflected acoustic pulse signal (409), a receiving transducer (408) being arranged such as to receive said output acoustic pulse signal (405) transmitted directly from said transmitting transducer and said reflected acoustic pulse signal (409) reflected by said reflector, wherein said receiving transducer converts the received output acoustic pulse signal (405) into a reconstructed output electrical pulse signal (410) and the reflected acoustic pulse signal (409) into a reconstructed reflected electrical pulse signal (411), a speed determination means for determining the speed of sound (412) using the reconstructed output electrical pulse signal (410) and the reconstructed pulse signal (411).

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