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**(54) Title (EN):** INFRASONIC INTRUDER ALARM

**(54) Title (FR):** ALARME ANTI-INTRUSION INFRASONIQUE

**(57) Abstract:**

**(EN):** An infrasonic intruder alarm system (100) adapted to detect changes in infrasonic frequency in a defined space (101).

The alarm system (100) comprises a transducer (13) for sensing infrasonic frequency variations, which is adapted to produce an analogue signal (20), a signal amplifier, an analogue to digital converter which is adapted to convert a portion of the analogue signal (20) which crosses at least one predetermined threshold into a digital signature (30), and a processor (15) adapted to compare the digital signature (30) against known digital signatures. An alarm event is triggered if the digital signal (30) produced matches a known signature, and an alarm (17) is activated by the alarm event.

**(FR):** L'invention concerne un système d'alarme anti-intrusion infrasonique (100) conçu pour détecter des changements dans une fréquence infrasonique dans un espace défini (101). Le système d'alarme (100) comprend un transducteur (13) pour détecter des variations de fréquence infrasonique, qui est conçu pour produire un signal analogique (20), un amplificateur de signal, un convertisseur analogique-numérique qui est conçu pour convertir une partie du signal analogique (20) qui franchit au moins un seuil prédéterminé en une signature numérique (30), et un processeur (15) conçu pour comparer la signature numérique (30) à des signatures numériques connues. Un événement d'alarme est déclenché si le signal numérique (30) produit correspond à une signature connue, et une alarme (17) est activée par l'événement d'alarme.

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