

Title (en)
Audible warning devices

Title (de)
Akustische Warnvorrichtungen

Title (fr)
Systèmes d'avertissement audible

Publication
EP 1174835 A2 20020123 (EN)

Application
EP 01305973 A 20010711

Priority
GB 0017477 A 20000718

Abstract (en)
An audible warning device e.g. for a fire alarm system is arranged to generate an audible output signal having a first frequency $1/T_1$ and comprises an audible output transducer 10 and a driver circuit 12 for applying an alternating drive signal, having a second and higher frequency $1/T_2$, to the transducer 10 over successive distinct periods, the frequency of the periods being equal to the first frequency $1/T_1$. The (second) frequency at which the transducer 10 is driven is at or near the resonant frequency of the transducer 10. However, the (second) frequency signal is only applied in successive distinct periods at the (first) lower frequency and thus the transducer appears to produce an audible output signal at this lower frequency. There is also disclosed a method of tuning the a transducer to output an audible output signal at the (first) lower frequency by determining the (second) frequency at which the audible output of the transducer is high and driving the transducer 10 with a drive signal at the determined (second) frequency over successive distinct periods, the frequency of the periods being equal to the desired (first) frequency. <IMAGE>

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G08B 3/10

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Cited by
US2011260875A1; US7369061B1; EP1507603B1; EP1507603A1

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