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(71) Applicant: **CERBERUS BLACK LTD** [GB/GB]; Suite E5, The Priory, Syresham Gardens, Haywards Heath, Sussex RH163LB (GB).

(72) Inventors: **HENRY, Matthew**; 32 Chapelfields, Cuckfield, Haywards Heath, Sussex, RH175JR (GB). **KINSELLA, Edward**; The Mount, 193 Brighton Road, Godalming, Surrey, GU71PL (GB).

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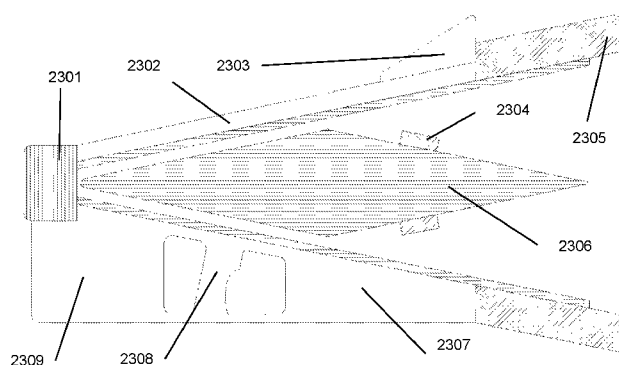


Figure 23

(57) Abstract: Acoustic Apparatus and Operation A portable acoustic warning device which projects a specific acoustic waveform towards a target, creating a narrow beam of sound that is highly selective, minimising exposure to users and bystanders, whilst enabling a controlled dosage of sound to be applied to the target. The design of the device is tailored to this waveform thus achieving a very high degree of directivity. It is not intended for communicating verbal messages. This waveform achieves maximum intensity at the target whilst using a relatively low sound pressure level; meaning that the exposure levels can be controlled to ensure they are within existing health and safety legislation. A laser range finder limits the sound level at the target to a pre-determined level. An integrated camera is used to aid aiming. Video footage is recorded with use; along with the sound level at the target, exposure duration, time, date and GPS coordinates.

