



Bunker Destruction via Focusing Explosive Array

(System and Method for Focusing
a Kinetic Pulse Array)

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12/570,965**

- **What is it?**
 - A method to transmit synchronized kinetic pulses to an underground target.
- **How does it work?**
 - Placing explosive nodes around a target area (above or below ground)
 - Nodes equipped with transducers to generate seismic waves and to measure reflections from density or/ or stiffness changes
 - Onboard computing allows for optimization of detonation such that the pressure wave from each individual explosions hits the target for maximum effect

How does it work?

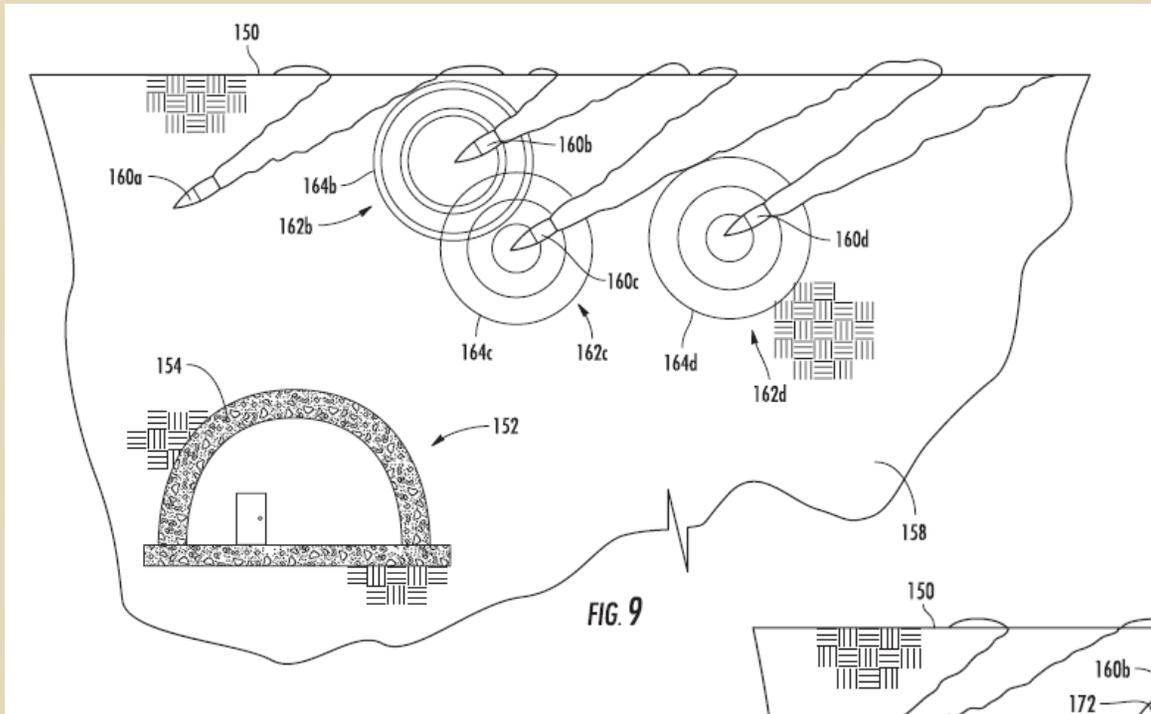


FIG. 9

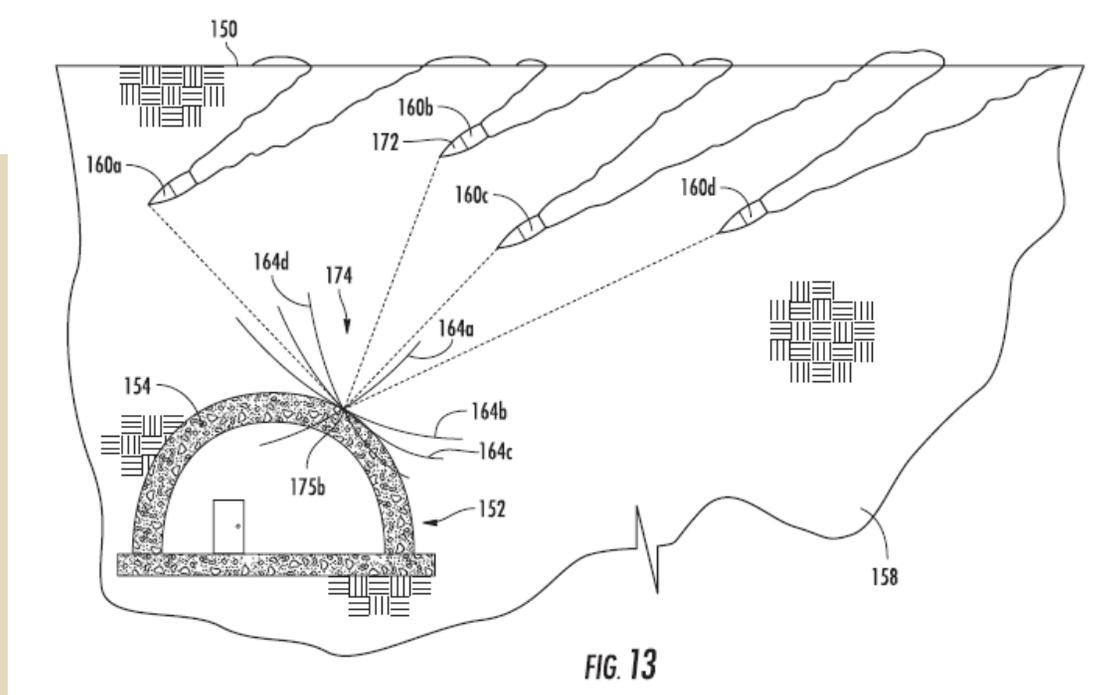
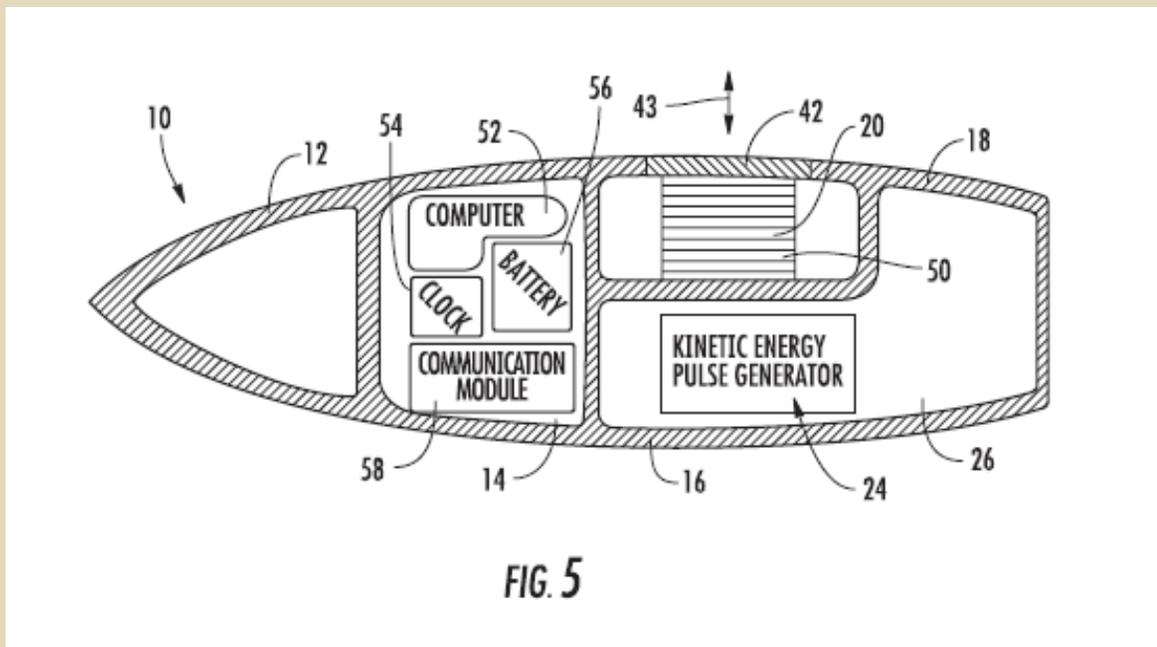


FIG. 13

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- **What makes it special?**
 - Explosive nodes have been used but not coordinated and synchronized to maximize the pressure waves on target
 - **What are its limitations?**
 - Hasn't been done
 - Individual technologies mature
 - Packaging of sensors for impact (bomb platform) would require additional investigation
 - **What is its status?**
 - Conceptual

- **What are the main components?**
 - Onboard processing, clock, software, battery
 - Transducer / communication module
 - Kinetic energy pulse generator (ping)



COMMERCIAL APPLICATIONS

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- **Who would use it?**
 - Oil exploration companies for seismic imaging, active sonar with irregular array
 - Military for underground targets
 - **How could it be used?**
 - Fracturing geology
 - Closing off mines
 - Closing off underground fires
 - Shutting oil cut off devices
 - **How would you use it?**