

TECHNOLOGY READINESS LEVEL: 6

US PATENT # 7,887,092

A PROTOTYPE HAS BEEN DEVELOPED AND TESTED

TECHNOLOGY SUMMARY



There is a need for a way to ensure rapid, forced entry into a structure for police, firemen, SWAT teams, and security officers. Current commercially available methods, including cutting saws, spreading tools, explosive devices, and “burning” devices are often extremely noisy, have significant time-delay, present potential fire hazards, and require the close-proximity of personnel.

Sandia has developed a harpoon breaching tool that allows law enforcement personnel to breach metal doors or walls within seconds. Because this tool can be mounted to a vehicle’s standard receiver hitch, danger to personnel can be mitigated. Also,



because explosives are not used, the risk of a fire drops significantly. The harpoon works by first driving the vehicle toward the structure and penetrating the wall/door with the harpoon. Once the harpoon has entered the structure, the pivot blade can be released, essentially “hooking” the inside of the wall/door with the tip. The vehicle can then reverse direction, taking with it the door or a section of the wall thereby allowing law enforcement to enter the premises quickly (within seconds) of attempting to breach the structure.

POTENTIAL APPLICATIONS

- Law Enforcement Officers
- Security Officers
- Fire Departments

TECHNOLOGICAL BENEFITS

- Extremely Fast Entry (second)
- No Fire Hazard
- Mitigates danger to personnel

TECHNOLOGY INQUIRY?

For more information or licensing opportunities contact us at

ip@sandia.gov

Refer to SD # 7652

or

<https://ip.sandia.gov>