

INVENTION DISCLOSURE

1. **Invention Title.**

Phased Array Scanner for Fire and Police Applications

2. **Invention Summary.**

Use a phased array scanner at millimeter wavelengths for public safety application.

3. **Invention Description.**

a. **Describe the invention in detail.**

The idea is to make a portable version of the 100GHz phased-array security scanners that they use at the airport to look through your clothes, and give it to firemen so they can look through walls for trapped people in a burning building. The device could also look thru opaque smoke. The idea would also have applications for homeland security, to look into wooden or cardboard boxes for contraband/bombs/whatever. Police could use it to see if someone is behind a door, or in a room, before they enter a dwelling. The device also could look through closed curtains.

b. **Why was the invention developed? What problem(s) does the invention solve? How is it better?**

c. **Briefly outline the potential commercial value and customers of the invention.**

Large sales potential, but not necessarily in our MSO's line of business.

4. **HOW is this invention different from existing products, processes, systems?**

Not known.