

ABSTRACT OF THE DISCLOSURE

**TITLE OF INVENTION: ELECTROMAGNETIC RADIATION
MEASURING APPARATUS**

An electromagnetic radiation measuring apparatus,
comprises: a plurality of antenna elements matrix-arranged
responsive to electromagnetic waves; a printed circuit
5 board having plural sets of first and second print patterns;
and a switching circuit; each antenna element having: an
insulator having a substantially rectangular parallelepiped;
at least a conductor pattern on at least a surface of the
rectangular parallelepiped; and connecting portions for
10 mechanically and electrically connecting the conductor
pattern to the first and second print patterns of each set,
the switching circuit selectively outputting a detection
signal generated by the conductor pattern of each antenna
element in response to the electromagnetic waves. In this
15 apparatus, the conductor pattern may have a straight line
portion having a constant width or may have a circle shaped
portion or may have an oval shaped portion. In this
apparatus, the conductor pattern may be spirally wound
around the insulator by at least a turn. Each of antenna
20 element may have a plurality of conductor patterns.
Moreover, the conductor is arranged on a top surface of the
insulator and the connecting portions comprises first and
second electrodes for providing connections between the
conductor and the first and second print patterns
25 respectively.

Figure 1