United States Patent [19]

Snyder

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[54] **SAFETY DETONATOR**

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[52] **U.S. Cl.** ..... **102/28 R,** 102/70.2 A
[51] **Int. Cl.** **F42b 3/18**
[58] **Field of Search** 102/28, 70.2

[56] **References Cited**

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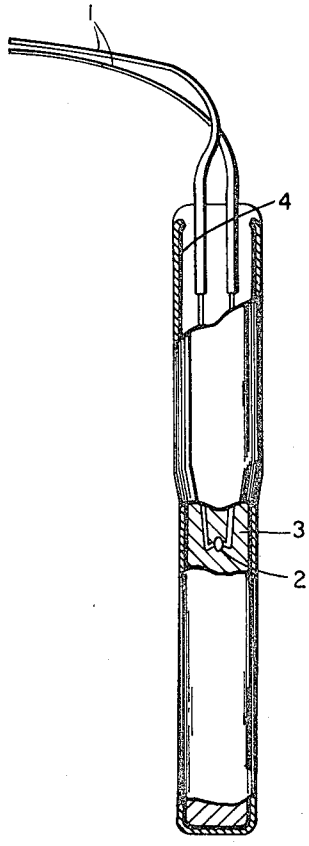
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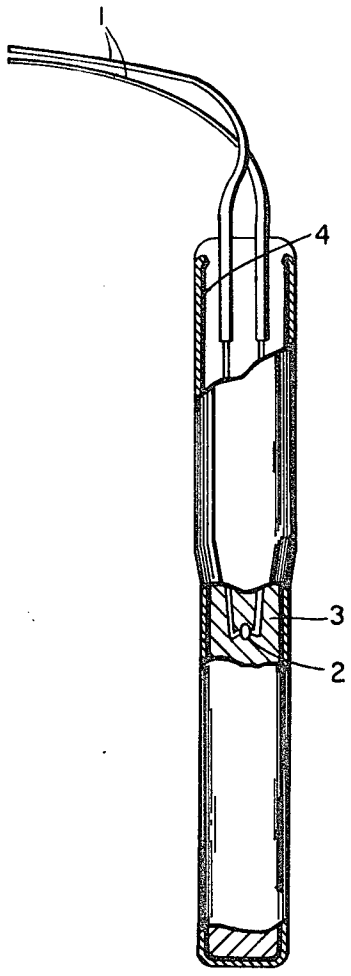
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[57] **ABSTRACT**

This invention relates to a detonator oriented towards the prevention of failure due to "arcing" or premature firing caused by ambient RF energy. (i.e., Radio, radar or microwave transmitters and static electricity.)

3 Claims, 1 Drawing Figure





INVENTOR

SAFETY DETONATOR

The FIGURE illustrates a detonator of the conventional electric blasting cap type. The electric detonator has lead-in wires **1** connected to a firing initiator **2** which detonates a charge **3.**

This detonator, however, contains two new features. These are: a flouride-carbon insulation **1** lined to prevent "arcing;" and the firing initiator **2** is a thermistor which upon receipt of a predetermined current through wires **1** heats to ignite. This non-inductive device prevents the ambient RF energy device from forming a tuned circuit at random radio frequencies.

Thus having described the invention, the claims are

as follows:

1. In an electric blasting cap, leadin wires (**1**) a firing initiator connected across the leadin wires (**2**) and an explosive change (**3**) adjacent to the firing initiator adapted to be ignited by said firing initiator, wherein said initiator is a thermistor.

2. Within an electric blasting cap as set forth in claim **1** where there is further provided an insulating means disposed around the firing initiator.

3. In an electric blasting cap as set forth in claim **2** where the insulating means is a flouride-carbon insulation.

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