Feb. 21, 1950 S. C. FAY 2,498,406

DEMONSTRATION DEVICE

Filed March 9, 1948

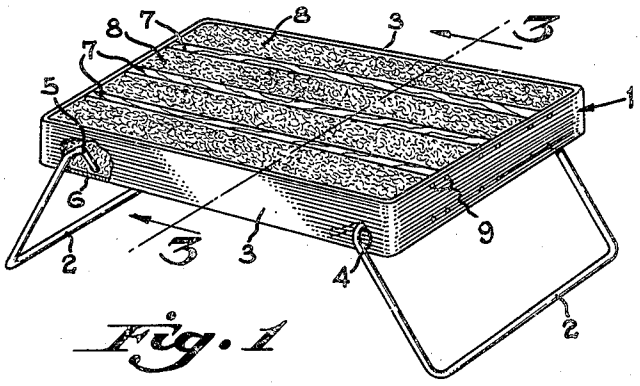


Fig. 1

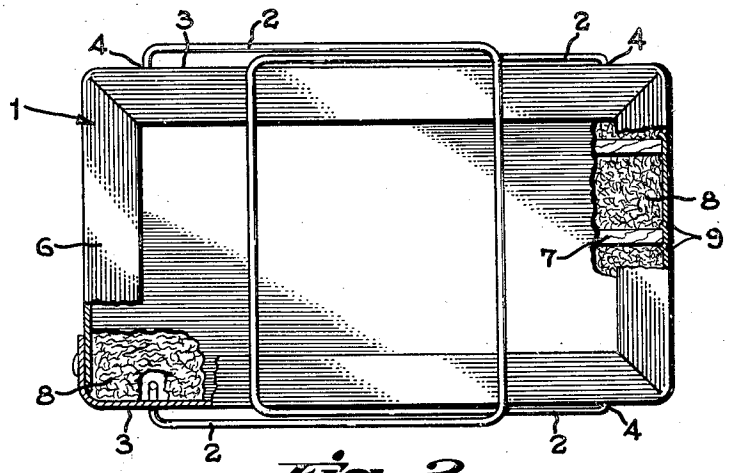


Fig. 2

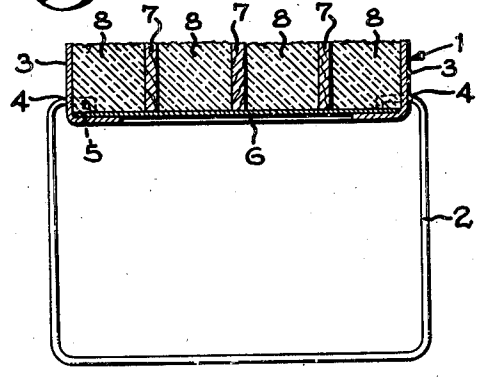


Fig. 3

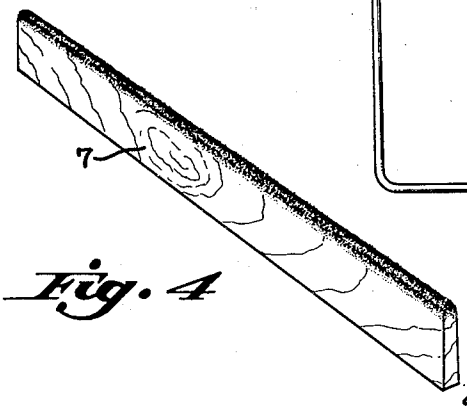


Fig. 4

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Patented Feb. 21, 1950 2,498,406

UNITED STATES PATENT OFFICE

2,498,406

DEMONSTRATION DEVICE

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Application March 9, 1948, Serial No. 13,867

4 Claims. (Cl. 35—55)

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This invention relates to a device for demonstrating the fire-resistant properties and effects of insulation such as mineral wool, fibreglass, asbestos, and the like.

The objective of the invention has been to provide a device which a salesman may employ to demonstrate to a home owner or prospective customer, that a house having wooden joists which is insulated by blowing or otherwise packing the joists with insulation renders them virtually non-inflammable. A further object of the invention is to provide a device of this character which is small, compact, light, and can be used with safety for demonstration purposes under all conditions, for instance, on a desk or table.

Other objects and certain advantages of the invention will be more fully apparent from the description of the drawing in which:

Figure 1 is a perspective view of the device broken to show a section at the lower left hand corner.

Figure 2 is a bottom plane view, also broken to show a section at the lower left hand corner.

Figure 3 is a sectional view taken on line 3—3 of Figure 1.

Figure 4 is a perspective of a joist representative in miniature after utilization in the device.

In the apparatus shown in the drawing, a shallow tray 1 is provided with legs 2, each constituted by a U-shaped piece of wire pivoted to the sides 3 of the tray at points 4. These legs may be positioned to support the tray, spacing it above the support for the legs, as disclosed in Figure 1, or may be folded under the tray, as disclosed in Figure 2. When the device is not in use, the ends of the wires constituting the legs are bent laterally at the inside of the tray to provide abutments 5, which engage the bottom 6 of the tray when the legs are in tray supporting position, and thereby limit the outward swing of the legs. Within the tray is disposed a plurality of miniature wooden joists 7, which are separated by insulation 8. This construction conforms to the relationship of the insulation and joists of a building. The joists are held in position by pairs of the indentations 9 pressed into the end walls of the tray. These support the joists in edgewise position, prevent them from falling out and facilitate packing in the insulation.

In use, the tray is set up with the legs supporting it in a position spaced from the desk or table upon which the legs rest. Lighter fluid, or some similar inflammable material, is poured over the joists and insulation in the tray and set afire. The flame burns the lighter fluid and chars the tops of the joists, but the action of the insulating packing is such that the joists do not support combustion when the lighter fluid is exhausted.

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In this way, it is possible for a salesman to demonstrate to a prospective customer, in the latter's home or office, that having his existing or prospective house properly insulated will make it more fire proof. After a demonstration the charred wood members may be reversed, edge for edge, for the next demonstration, or replaced by new ones.

Having described my invention, I desire it to be limited only by the following claims.

I claim:

1. A device for demonstrating the efficacy of insulation for fire-proofing frame building construction, said device comprising a tray, a plurality of miniature joists contained in said tray, and insulating material packed about said miniature joists.

2. A device for demonstrating the efficacy of insulation for fire-proofing frame building construction, said device comprising a non-flammable tray, at least one miniature wooden joist arranged on edge within said tray, and non-flammable insulation material packed within said tray at opposite sides of said miniature joist, and being in substantially flush relationship to the upper edge thereof, in simulation of the relationship of insulation to wooden framing members of a wooden building.

3. A device for demonstrating the efficacy of insulation for fire-proofing frame building construction, said device comprising a non-flammable tray, at least one miniature wooden joist arranged on edge within said tray, non-flammable insulation material packed within said tray at opposite sides of said miniature joist, and being in substantially flush relationship to the upper edge thereof, in simulation of the relationship of insulation to wooden framing members of a wooden building, and legs for sustaining said tray above a supporting surface, said legs being collapsible to reside adjacent said tray when not in use.

4. A device for demonstrating the efficacy of insulation for fire-proofing frame building construction, said device comprising a tray, a plurality of miniature joists contained in said tray, means on said tray for supporting said joists in edgewise position, and insulating material packed about said miniature joists.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
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