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Tong

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[54] STANDS FOR MODEL AIRCRAFT

[75] Inventor: Duncan Tong, Hong Kong, Hong Kong

[73] Assignee: Playart Limited, Hong Kong, Hong Kong

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40/106.51, 106.54

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Primary Examiner—Louis G. Mancene

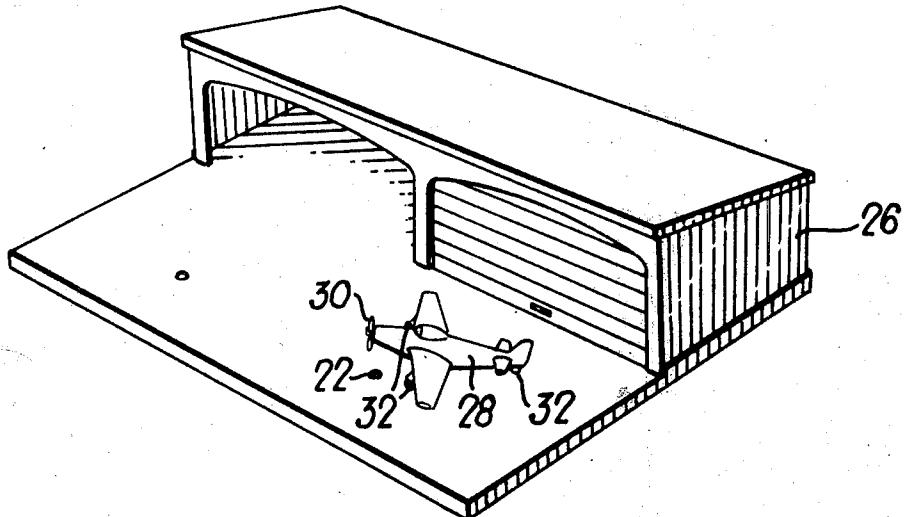
Assistant Examiner—Robert F. Cutting

Attorney, Agent, or Firm—Hyman Hurvitz

[57] ABSTRACT

A stand for the display of model aircraft which is provided with a fan for directing a current of air through a duct so as to flow past the freely-revolvable propeller of the aircraft.

5 Claims, 3 Drawing Figures



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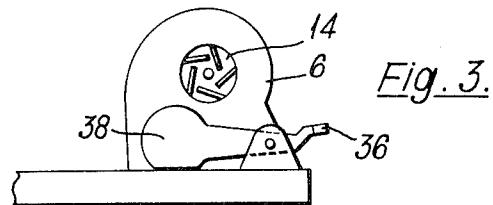
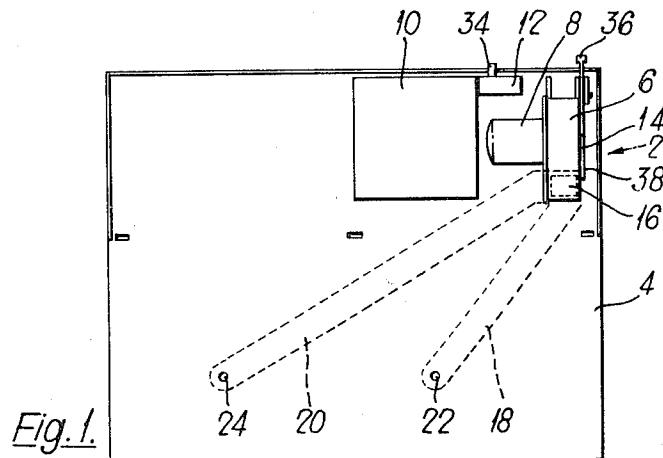
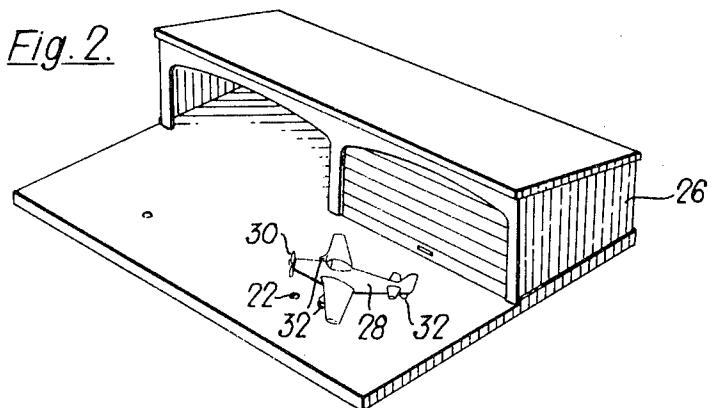


Fig. 2.



STANDS FOR MODEL AIRCRAFT

This invention relates to children's toys, and particularly to model airplanes and airports and stands therefor.

A model airplane stand according to the invention includes means for providing a current of air directed towards the, or each freely-revolvable propellor of one or more model airplanes suitably positioned on the stand.

Preferably the stand includes a flat base having one or more holes connected by ducting to a fan, so that the airplane or airplanes can stand with their propellors over the holes. The fan is preferably of the centrifugal type and may include throttling means for the air intake.

The fan is preferably driven by a battery-powered motor and it and the batteries may be located in a dummy building attached to the flat base. Alternatively, a simple stand for one airplane may comprise a base, in which the motor fan and batteries are located; and an upstanding portion which supports the airplane. A duct for air may then be incorporated in the upstanding portion.

One embodiment of the invention will now be described by way of example with reference to the accompanying drawings, in which:

FIG. 1 shows a diagrammatic plan view of a model airplane stand;

FIG. 2 is a perspective view of the complete stand of FIG. 1 showing an airplane in its operative position; and,

FIG. 3 is a side view of part of the stand of FIG. 1.

Referring to FIGS. 1 and 3, the stand 2 comprises a flat base 4 on which are mounted a fan housing 6 and a motor 8. A battery compartment 10 and switch 12 are mounted adjacent the motor and suitably wired to it.

The fan housing 6 is of a volute configuration and encloses a centrifugal fan. An inlet 14 is positioned in the centre of one side and an outlet 16 is arranged to communicate with air-ducts 18 and 20 which extend along the underside of the base 4. Apertures 22 and 24 respectively in the base 4 communicate with the interior of the ducts 18 and 20, so that when the fan motor is switched on, air issues from the apertures.

Referring to FIG. 2, the fan, motor and battery compartment are normally covered by a structure 26 which may be made to represent a hangar or other airport building. A model aircraft 28 can be positioned on the base 4 so that its propellor 30, which is mounted so as to be freely rotatable, is directly above the aperture 22, and for this purpose markings or indentations (not shown) may be provided in the surface 4 to receive the wheels 32 of the aircraft.

The switch member 34 of the switch 12 is arranged to protrude from the rear of the structure 26, as is a control lever 36 for a pivoted flap 38 over the inlet 14 of the fan. In use, when the switch member 34 is operated the motor drives the fan and air is drawn into the inlet 14, at varying rates according to the setting of the

flap 38. The air is blown through the ducts 18 and 20 and emerges through the holes 22 and 24, causing the propellors of the aircraft to rotate. The speed of rotation varies according to the quantity of air delivered by the fan.

5 I claim:

1. A stand for a model aircraft having an airscrew comprising:

a base;

a motor fixed to said base;

an air outlet in said base;

a fan drivably connected to said motor; and

a duct connecting said fan to said air outlet in said base, said outlet having dimensions such that a stream of air can be directed through said outlet against substantially only said airscrew; and locating means on said base for so positioning said aircraft on said base that only said airscrew is positioned in said stream of air.

2. A stand according to claim 1 further comprising: throttle means to control the flow of air into the fan.

3. A stand for model aircraft comprising:

a base;

a motor fixed to the base;

a fan drivably connected to the motor;

at least one duct connecting the fan to an outlet in the base, whereby a stream of air is directed through said duct to said air outlet;

an aircraft positioned on said base so that only its airscrew is positioned in said stream of air, and at least one set of depressions in the base to locate the wheels of said aircraft so that said airscrew is positioned over said air outlet.

4. A model aircraft display comprising:

a flat base;

a motor fixed to the base;

a fan drivably connected to the motor;

throttle means controlling the air intake to the fan; at least one air duct connecting the fan to an outlet in the base;

and at least one set of depressions in the base to locate the wheels of an aircraft so that its airscrew is positioned over an air outlet; and at least one aircraft positioned on the locating depressions of the base.

5. A model aircraft display comprising

a base,

a motor fixed to said base,

a fan drivably connected to said motor,

at least one air duct connecting the fan to at least one outlet in the base,

locating means on said base to locate an aircraft so that its airscrew is positioned over said at least one outlet,

at least one aircraft, and

cooperating locating means on the aircraft for locating said aircraft with respect to said locating means on said base.

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