April 26, 1932. G. W WILLIAMS, JR 1,855,534

TURRET TYPE HANGAR FOR AIRPLANES

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Fig. 1.

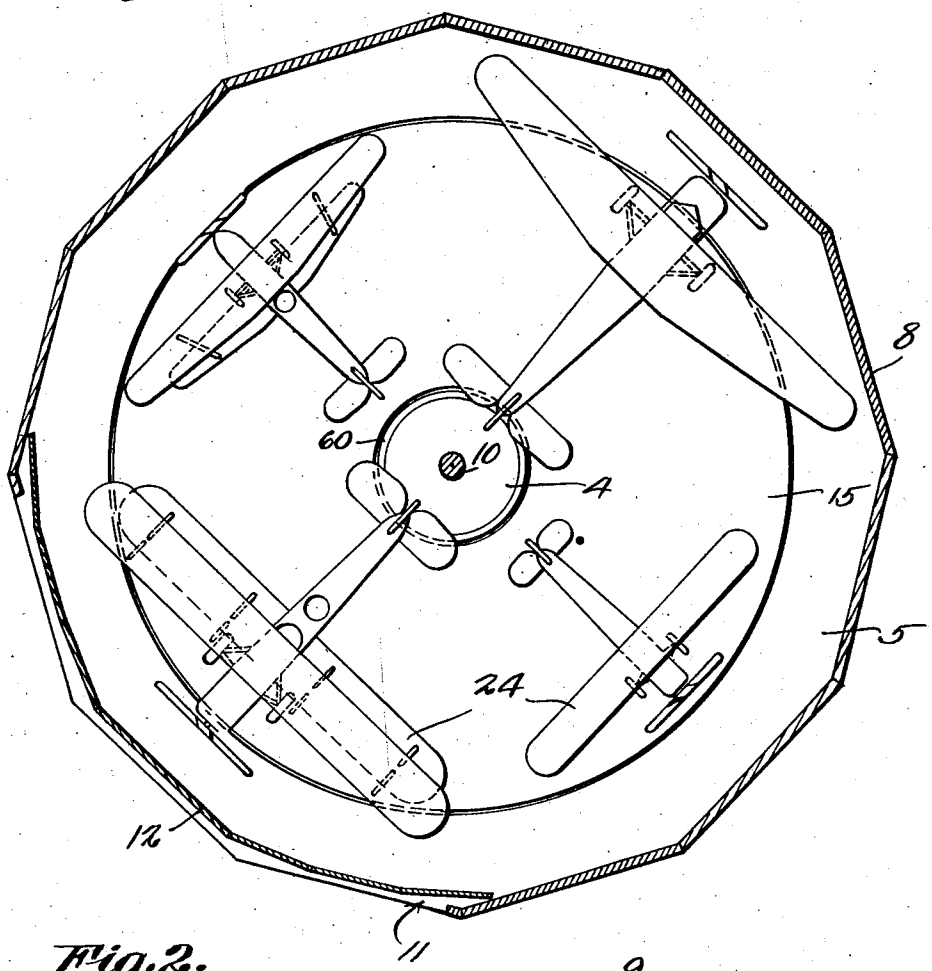
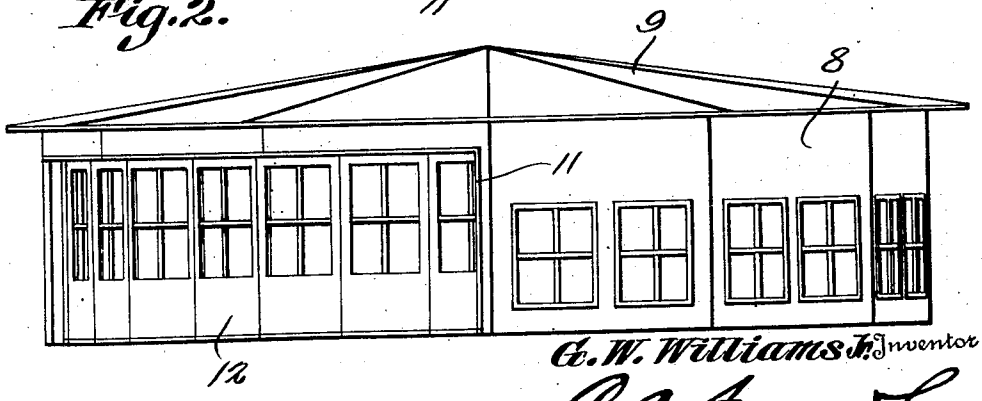


Fig. 2.



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Fig. 3.

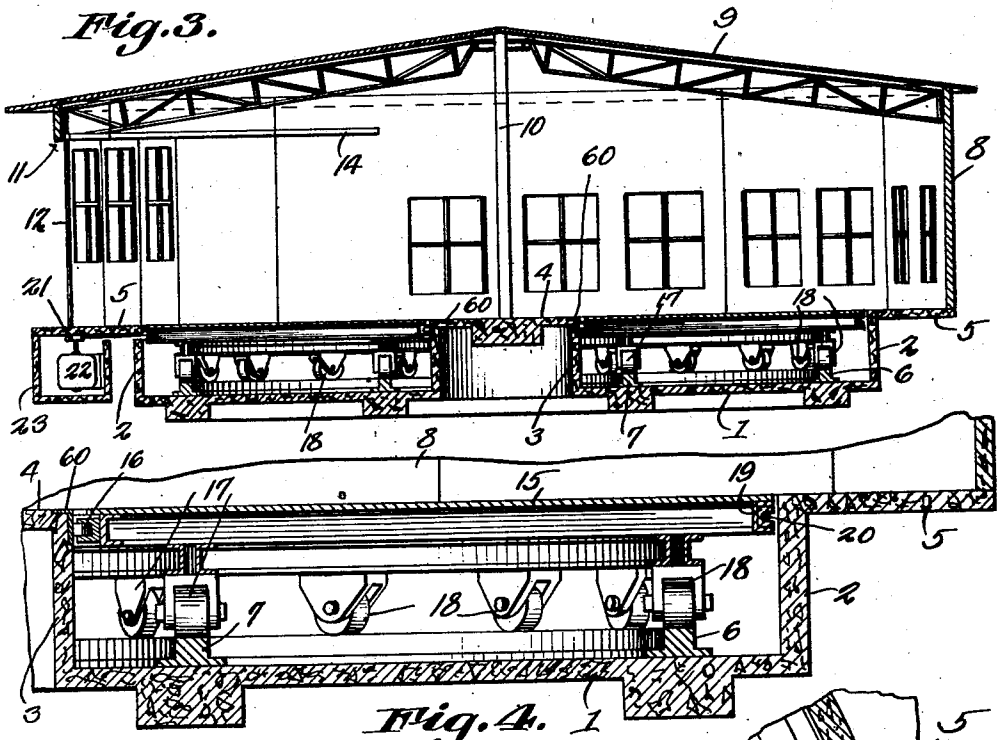


Fig. 4.

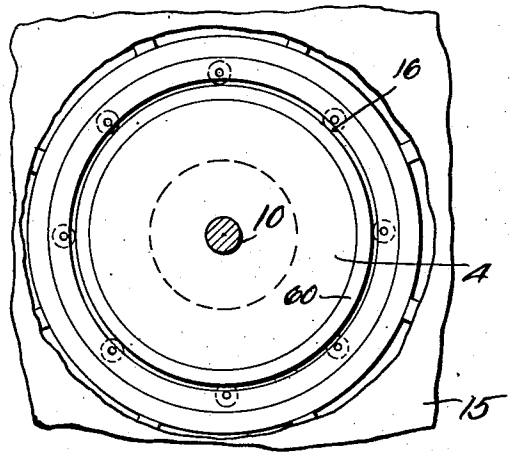


Fig. 5.

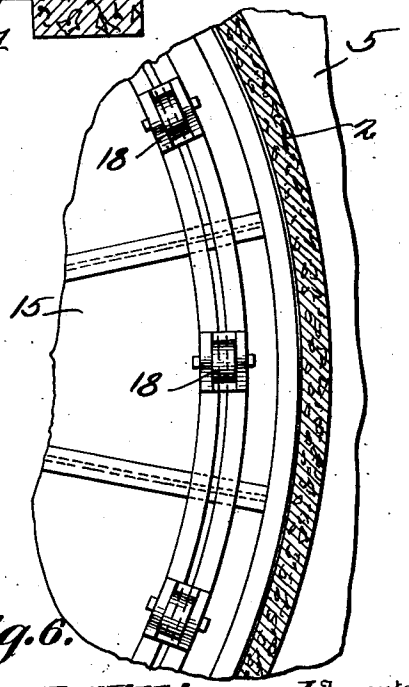


Fig. 6.

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UNITED STATES PATENT OFFICE

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TURRET TYPE HANGAR FOR AIRPLANES

Application filed April 14, 1930. Serial No. 444,310.

By way of explanation, it may be stated that the present practice in the construction of hangars for aircraft is to supply the building with a plurality of doors, so that the aircraft may leave the building in the desired and necessary direction. The provision of a plurality of doors on a hangar for the purpose specified has turned out to be a source of much annoyance and trouble, and the present invention aims to provide a novel construction by which a plurality of doors in a building of the type referred to may be avoided.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that sort to which the present invention appertains.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes may be made in the precise embodiment of the invention herein disclosed, within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings:

Figure 1 shows in horizontal section, a device constructed in accordance with the invention;

Figure 2 is an elevation;

Figure 3 is a vertical transverse section;

Figure 4 is an enlarged vertical sectional detail;

Figure 5 is a fragmental top plan in which parts are broken away;

Figure 6 is a fragmental bottom plan in which parts are broken away.

The device forming the subject matter of this application comprises a hangar including a building having a single doorway, a door for the doorway, a turntable within the building and adapted to carry airplanes, and means for rotating the turntable so as to bring any desired airplane to the single door for delivery or flight.

The construction above referred to, broadly, may be made, as to details, in various ways, and one embodiment of the invention, only, has been shown in the drawings, it being presumed that a mechanic, working within the scope of what is claimed, will alter the specific form shown, as occasion may require.

In carrying out the invention, in one form, there is supplied an annular foundation 1 including a vertical outer wall 2 and a vertical inner wall 3, the inner wall 3 being surmounted by a first floor section 4, and the outer wall 2 carrying an annular second floor 5, there being a space between the annular floor 5 and the central floor section 4.

On the foundation 1 there is a track 6, and a track 7 disposed within the track 6, the tracks 6 and 7, each, being in the form of a ring. On the upper edge of the inner wall 3 is mounted a track 60, preferably in the form of an angle member, presenting a vertical surface toward the outer wall 2.

The building itself may be of any desired contour. It is shown in Figure 1 as being twelve-sided, but that construction may be departed from. The wall 8 of the building is supported on the floor 5. The wall 8 carries the roof 9, and the roof is supported centrally by a post 10 which finds a footing on the floor section 4. The wall 8 has a single doorway 11, controlled by a door 12, which may be slidably mounted, as indicated at 14 in Figure 2.

An annular turntable 15 is provided and rotates in the space between the annular floor 5 and the central floor section 4. Any preferred way may be provided for mounting the turntable 15 and for rotating it. Rollers 16 are journaled on the inner edge of the turntable 15, with their axes disposed vertically. The rollers 16 cooperate with the track 60 to keep the turntable centralized and in proper relation to the tracks 6 and 7, the turntable carrying inner rollers 17 which traverse the track 7, and outer rollers 18 which traverse the track 6.

As to the means for rotating the turntable 15, the same may be provided about its edge with a pulley 19 engaged with an endless flexible element 20 cooperating with a pulley 21 on a motor 22 housed in a casing 23 under the floor 5, or arranged elsewhere.

Although a belt drive for rotating the turn-

table 15 has been shown, some may wish to use another drive and this is permissible.

In practical operation, the door 12 is opened, and the airplanes 24 are moved one at a time on to the turntable 15. The turntable 15 is rotated to bring a new space before the doorway 11, and one plane after another may be mounted on the turntable until the turntable is full.

When it is desired to remove any particular plane, the turntable 15 may be rotated to bring that plane up to the doorway 11, whereupon the selected plane may be removed from the hangar.

The rotation of the turntable is brought about by the motor 22, the pulley 21, and the endless conveyor or belt 20 which cooperates with the large pulley 19 on the edge of the turntable 15.

The device is simple in construction but it affords a means whereby a plurality of doors, extending all the way around the periphery of the hangar, may be dispensed with.

What is claimed is:

A hangar comprising a horizontal annular foundation provided at its inner edge with a vertical annular inner wall and provided at its outer edge with a vertical annular outer wall, a first floor closing the top of the inner wall and carried thereby, a second annular floor carried by the upper edge of the outer wall and projecting outwardly therefrom, an annular turntable disposed between the floors, in substantially horizontal alinement therewith, the second floor forming a runway about the turntable and adapted to be overhung by the wings of a plane on the turntable and giving access to the planes on the turntable, means for supporting the turntable for movement on the foundation, between the walls, anti-friction devices supported between the inner edge of the turntable and the inner wall and retaining the turntable for rotation about a vertical axis, a building supported on the second floor and housing the second floor and the turntable, and a post supporting the top of the building centrally from the first floor.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

GEORGE W. WILLIAMS, JR.