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R. H. IRWIN

BUILDING CONSTRUCTION

Filed Aug. 2, 1921

2 Sheets-Sheet 1

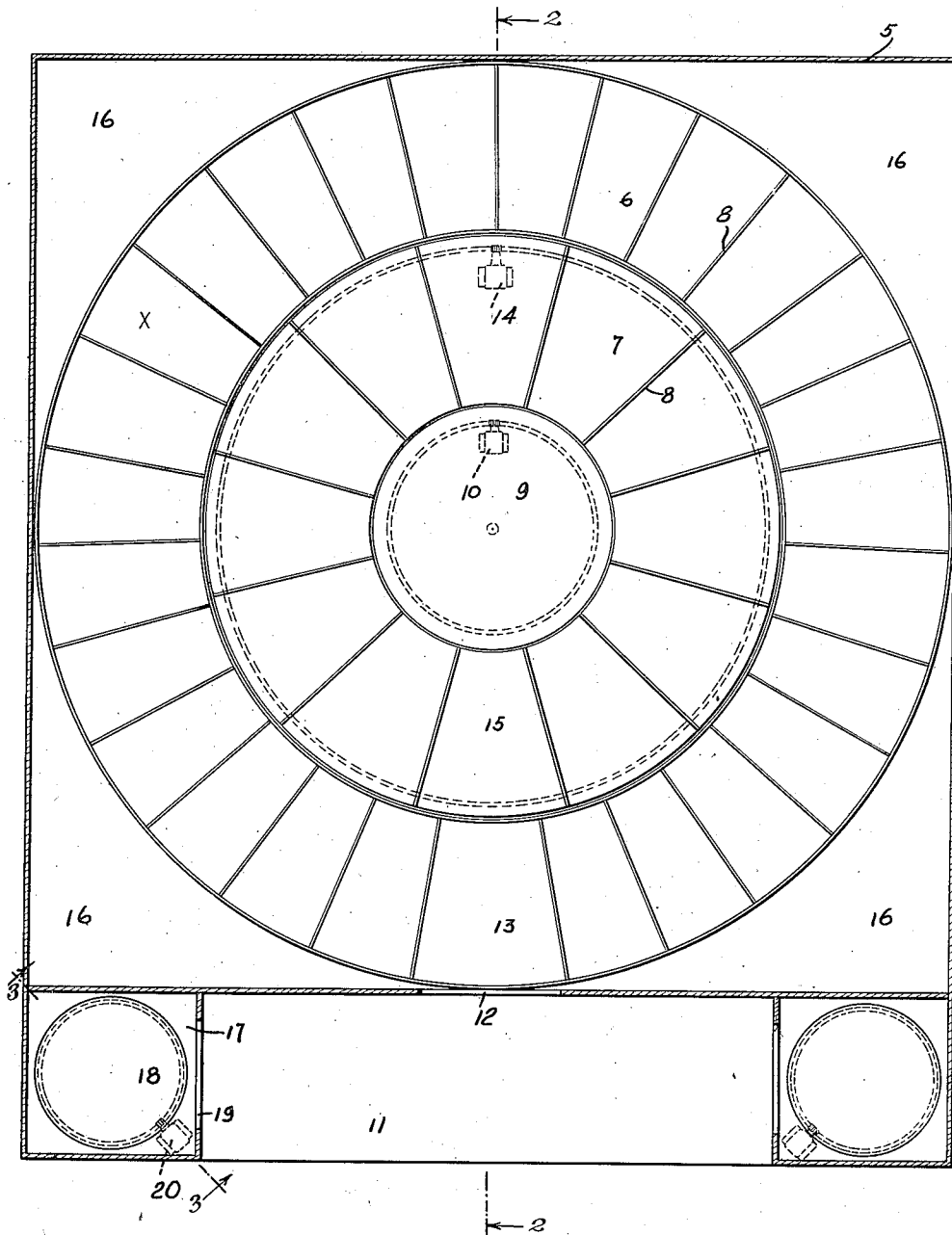


Fig. 1.

WITNESSES

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Fig. 2.

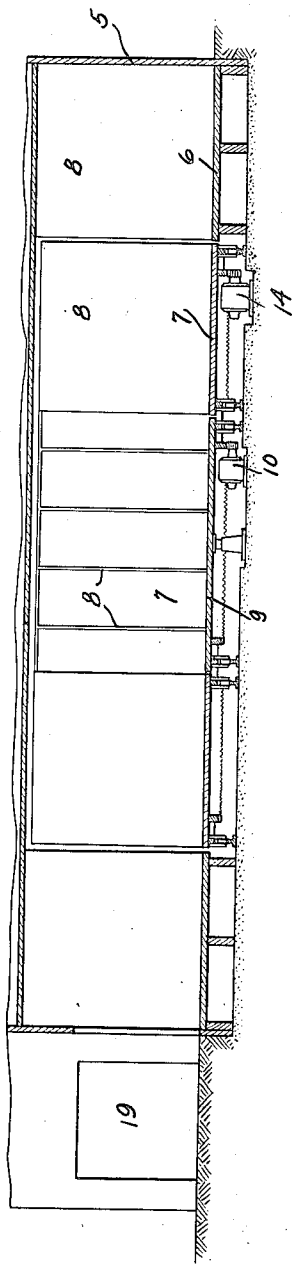
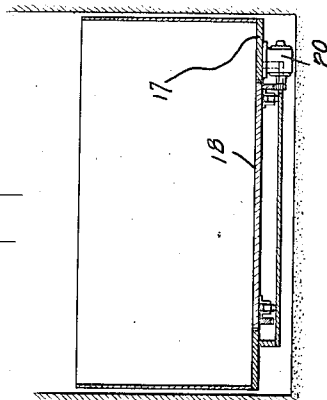


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

ROY HERBY IRWIN, OF SEATTLE, WASHINGTON.

BUILDING CONSTRUCTION.

Application filed August 2, 1921. Serial No. 489,349.

To all whom it may concern:

Be it known that I, ROY HERBY IRWIN, a citizen of the United States, and resident of Seattle, in the county of King and State of Washington, have invented a new and Improved Building Construction, of which the following is a full, clear, and exact description.

My invention relates to a building construction and aims to provide certain improvements in connection therewith, and more particularly on a building adapted to be used as a garage.

It is a well understood fact that a great amount of space is wasted in storage buildings, such as garages, in that it is necessary that each vehicle disposed therein must be readily available. Thus it is necessary that a space extending the entire length of the garage be left unobstructed, and on both sides of this space the vehicles are arranged.

A further difficulty experienced heretofore has been that where the space in a garage is constricted, which is usually the case, a vehicle entering and stored within the same has necessarily had to "back" out when it was to be used, and if an operator desired to move forwardly when removing the vehicle from the garage it has been necessary to back the same in, when being stored.

In this connection it is to be noted that a great amount of damage has occurred incident to these backing operations, but heretofore no effective remedy appears to have been suggested which might overcome this defect.

With these and further defects in mind my present invention aims to provide a building which shall be constructed in such a manner as to be ideally adapted for use as a garage for the storage of vehicles, and by means of which, space heretofore wasted will be used to the fullest possible extent, it being noted in this connection however that the vehicle stored within the building will be readily available when an operator desires to use the same.

A further object of my invention is the construction of a building of the class described by means of which all backing on the part of a vehicle will be practically eliminated so that the objections incident to this operation will be overcome.

Still another object of this invention is the provision of a building which may be

readily and economically erected and which may be of any desired capacity.

Further objects of this invention will appear in the annexed specification taken in connection with the drawings which latter illustrate one practical embodiment thereof, and in which;

Figure 1 is a sectional plan view of one unit or floor of a building embodying my improved construction.

Figure 2 is a transverse sectional side view taken along the line 2—2 and in the direction of the arrows indicated in Figure 1, and

Figure 3 is an enlarged sectional side view taken along the line 3—3 and in the direction of the arrows indicated in Figure 1.

Referring now more particularly to Figure 1 it will be seen that a building 5 may be rectangular, and that a plurality of series of storage spaces 6 and 7 are provided, the side of these storage spaces being preferably partitioned from the next adjacent one, as has been indicated by the reference numeral 8. It will be noted that each of the series 6 and 7 is annular, and disposed within the innermost series of storage spaces is a turn table 9 driven by any suitable type of motive power 10, as has been indicated in Figure 2.

It will be seen that the building 5 is provided with an approach 11 and an entrance 12. Also in the embodiment illustrated the series of compartments 6 is stationary and includes a passage way 13 aligning with the entrance 12 of the building 5. Further a series of compartments 7 are mounted upon a floor capable of being turned as at 14, and one of the compartments of the latter series is also dedicated to use as a passage-way 15 so that communication is afforded between the passage-way 13 and turn-table 9.

It will be understood by this structure that a certain amount of space 16 at the corners of the building 5 is not embraced within any of the series of compartments and with a view of providing a use for this space the same may be devoted to the dead storage of vehicles, or any other desirable purpose.

Assuming that an operator desires to dispose his car within compartment X of series 6, it will be seen that the vehicle may pass forwardly through the entrance 12 over the passage-way 13 and so into the passage-way 15. The driving mechanism 14 of the series of compartments may now be actuated until

the passage-way 15 aligns with the compartment X of the series 6 and the only backing which will be necessary in the entire operation takes place at this time in that the vehicle must necessarily be backed from the passage-way 15 into the compartment which it is to occupy. Further it is to be noted in this connection that no danger of injury exists in that the driver will operate the vehicle to move rearwardly in a straight line and also for the reason that the partitions are preferably provided which preclude any danger of the vehicle injuring adjacent vehicles.

Upon it being desired to remove the vehicle within compartment X, this may be accomplished by returning the member carrying the series of compartments 7 to a position at which the passage-way 15 will align with the said compartment. The vehicle disposed therein may now be driven across the passage-way 15 onto the turn table 9 and the latter element may be actuated so that upon the passage-way 15, the same being brought to a line with the passage-way 13, the vehicle will face the passage-way 15 and be free to pass forwardly through the same and through the passage-way 13 and free from the building.

It will be understood that any desirable number of units embodying substantially the foregoing construction may be arranged one above the other and in a building of this type, means must be provided for permitting vehicles to reach units above the ground floor. Thus, I preferably utilize elevators and as in Figures 1 and 3, these elevators may be of any desired type, preferably including a cage 17 having a turn table 18 associated with it and also carrying suitable driving mechanism 20 for operating the turn table.

In this instance, the vehicle moves through the entrance 19 from the approach 11 and so forwardly onto the turn table 18

of the cage 17. The latter is now moved in a vertical direction to a point at which the vehicle is to be freely moved therefrom. During this movement of the cage or at any other time the turn table 18 may be rotated so that when the vehicle is to be discharged from the cage, the forward end of the same again extends towards the entrance 19, thus permitting the vehicle to again move forwardly from the cage.

Thus, it will be appreciated that all of the objects set forth in the preamble of this specification are accomplished in that primarily practically all backing is eliminated, thus avoiding all damage heretofore incident to this operation. Secondly, the wastage of space is avoided and also every vehicle may be disposed within or moved from the building within a short period of time.

Finally, it will be found that the cost of the construction proposed will not be excessive and in fact it will readily be understood that any initial cost will be more than counterbalanced by the fact that virtually all of the space within the building is readily available for the purpose of storage.

It will obviously be understood that numerous modifications of structure might be resorted to without in the least departing from the scope of my claims, which are—

1. A building including in combination an annular series of storage spaces, each of said annular series of storage spaces providing a passage-way, and a turn table disposed within and encircled by said series.

2. A building including in combination a plurality of annular series of storage spaces, each of said annular series of storage spaces providing a passage-way, and a turn table disposed within and encircled by the innermost series, certain of said series of storage spaces being movable with respect to other series of storage spaces.

ROY HERBY IRWIN.