

March 15, 1932.

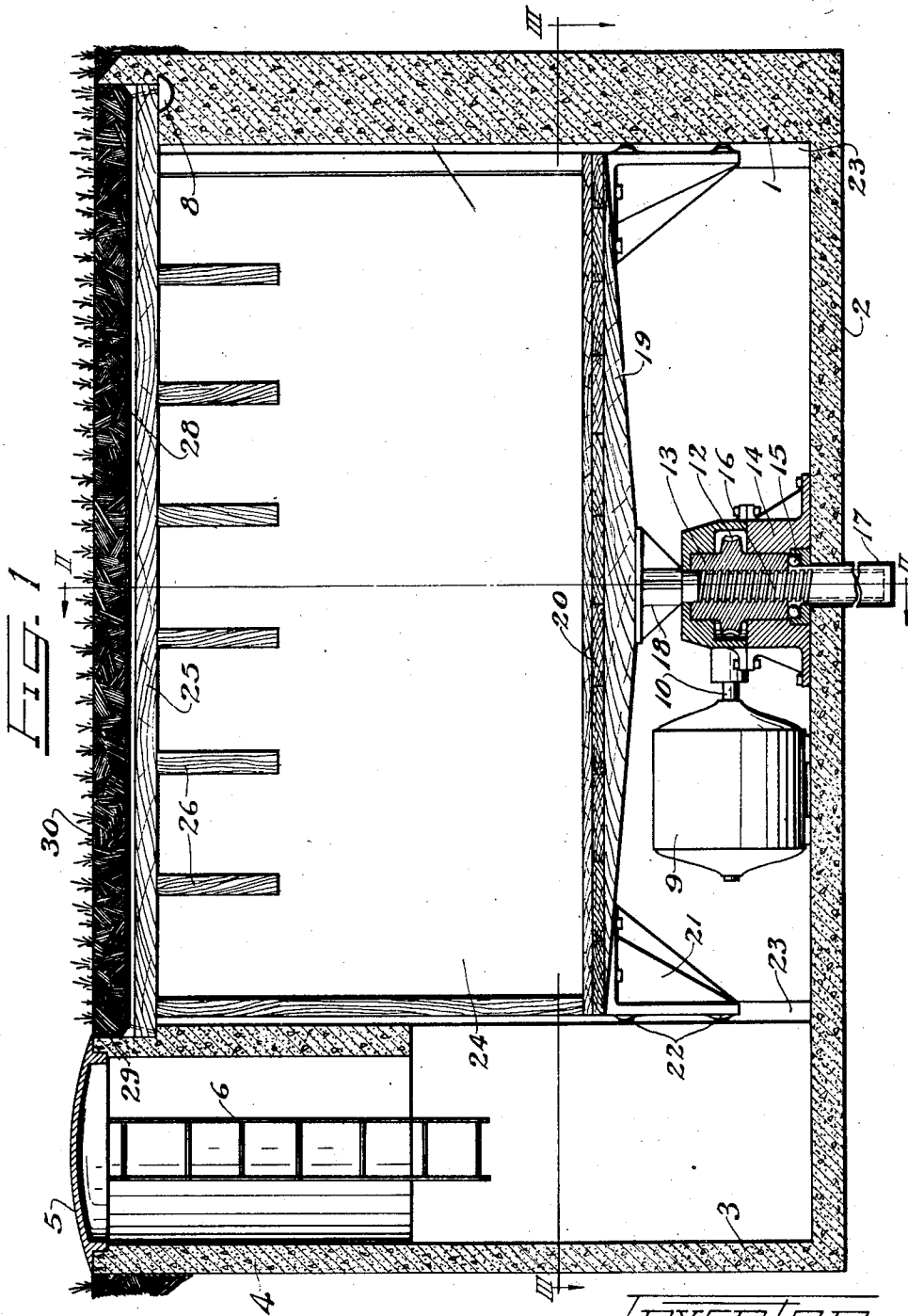
C. F. DAVIS

1,849,348

GARAGE

Filed Oct. 24, 1928

3 Sheets-Sheet 1



INVENTOR

Carl F. Davis

BY

Charles F. Davis, **ATTY.**

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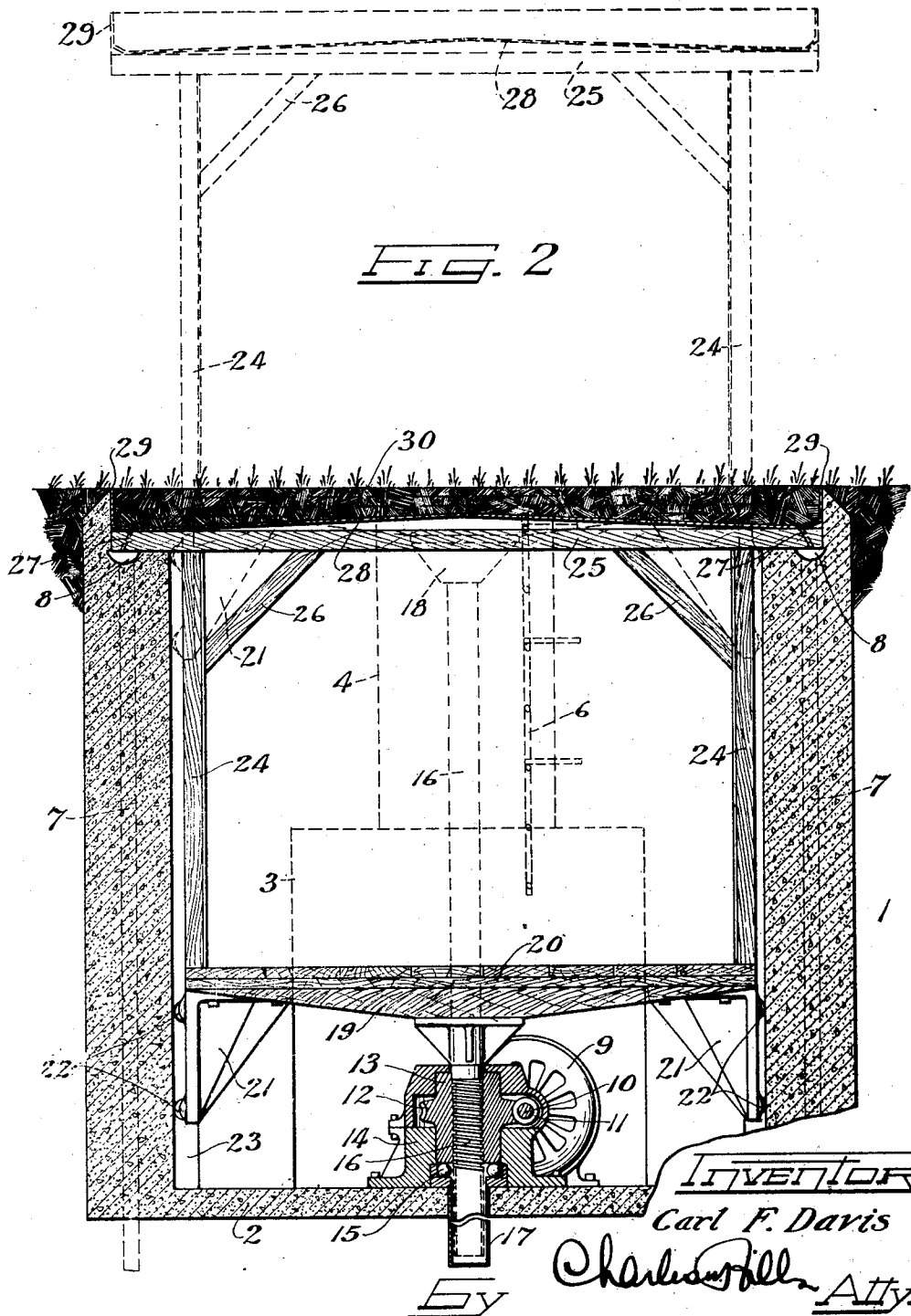
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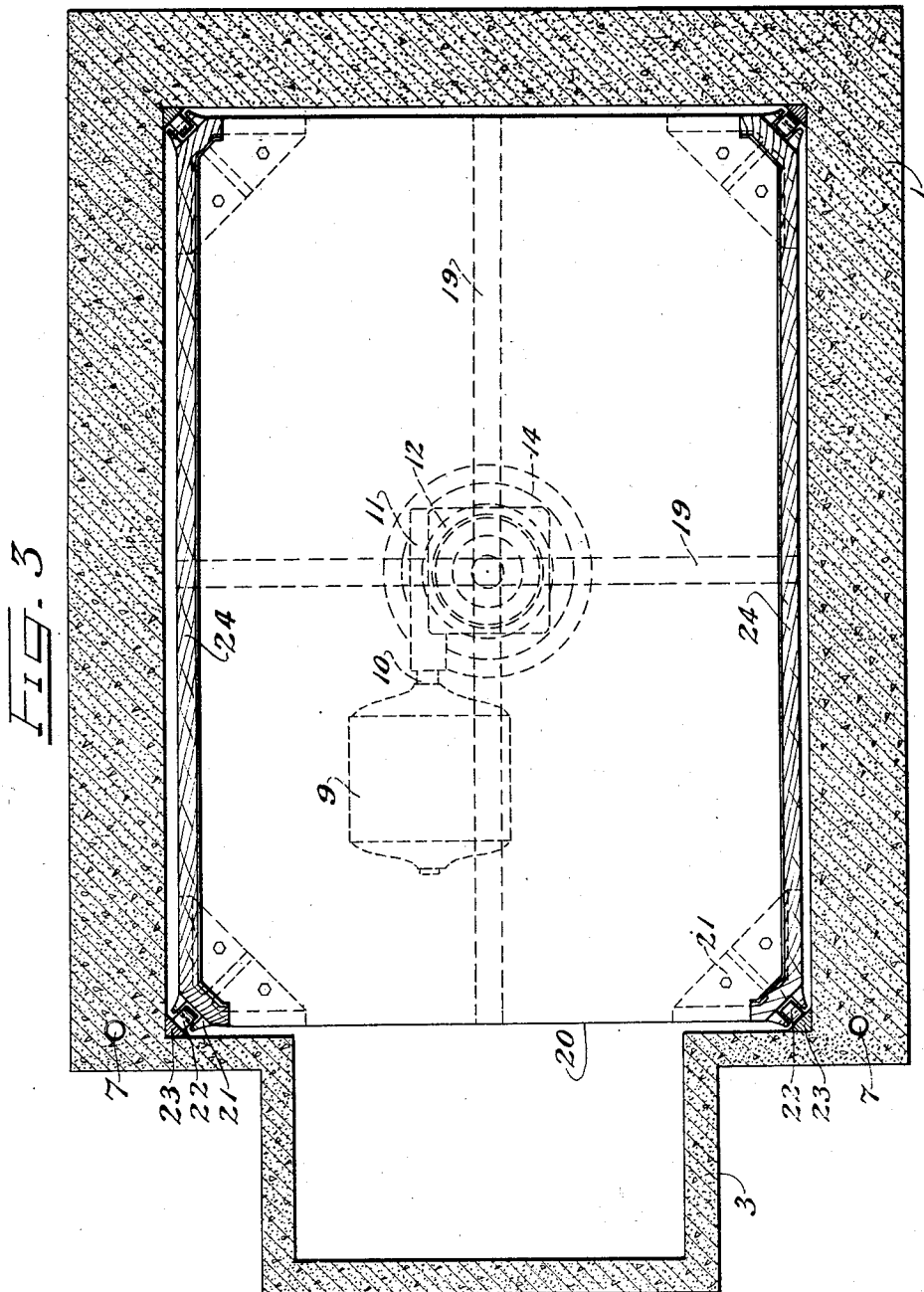
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UNITED STATES PATENT OFFICE

CARL F. DAVIS, OF CHICAGO, ILLINOIS

GARAGE

Application filed October 24, 1928. Serial No. 314,569.

This invention relates to a vehicle garage, and more particularly to an underground or concealed garage, having a remote controlled platform or table which is vertically adjustable within a sunken pit and supports a camouflaged roof, which is adapted to be disposed at the level of the ground in which the garage is positioned, so that when the garage is closed, there will be no external evidence of the garage to afford an unsightly appearance on the lawn of an attractive home of which the garage forms a part.

It is an object of this invention to provide a garage below the level of the ground, accessible by means of a manhole when necessary, and having a vertically moving automobile supporting table or platform, supporting a roof carrying a sodded covering to close and camouflage the opening for the garage when the table is in its lowered position.

It is also an object of this invention to provide a sub-garage, having a remote, electrically controlled automobile supporting platform mounted therein, adapted to be raised to the surface to permit an automobile to be driven thereon or removed therefrom, and furthermore adapted to be lowered so that a sodded roof section will serve as a camouflaged closure for the garage when the same is closed.

Another object of this invention is to provide a sunken garage in the lawn or garden of a home, so that when the garage is closed, the same will not be seen and, therefore, will not detract from the appearance of the lawn or garden.

It is furthermore an object of this invention to provide a sunken pit within a garden or lawn of a home, said pit adapted to be entered by means of a manhole or the like, in cases of emergency, said pit furthermore containing a vertically movable automobile supporting table, operable by means of a remote control, and carrying a roof section, the top of which is covered by sod or flower beds, so that, when the table is lowered, there will be no exterior evidence of the garage.

It is an important object of this invention to provide a remote controlled automobile storage platform, operable within a sunken pit and having a camouflaged roof for closing the pit when the garage is closed, thereby affording an arrangement in which there is no manifestation of a garage on the premises.

Other and further important objects of this invention will be apparent from the disclosures in the specification and the accompanying drawings.

This invention (in a preferred form) is illustrated in the drawings and hereinafter more fully described.

On the drawings:

Figure 1 is a longitudinal vertical section taken through a garage embodying the principles of this invention with parts shown in elevation.

Figure 2 is a transverse vertical section of the garage taken on lines II—II of Figure 1, with parts shown in elevation, and having the operation indicated in dotted lines, showing the garage in open position.

Figure 3 is a horizontal section of the garage taken on line III—III of Figure 1.

As shown on the drawings:

The reference numeral 1 indicates a concrete garage housing, provided with a concrete floor 2, and having a concrete extension chamber 3 formed at one end thereof. The extension chamber 3 is of substantially half the height of the garage housing 1 and is accessible by means of a concrete shaft or tube 4, the upper end of which is flush with the ground and is closed by means of a manhole cover 5 or the like. Mounted within the manhole tube 4 is a ladder 6, permitting a person to climb down into the extension chamber 3 of the garage housing.

Disposed in two corners of the garage housing 1 are a pair of drain pipes 7, the lower ends of which project into the ground below the garage floor 2, while the upper ends communicate with drain troughs 8 mounted in a pair of longitudinal grooves provided in the upper ends of the side walls of the garage housing.

Mounted on the floor 2 of the garage housing, within the storage chamber formed by the housing 1, is a driving or operating mo-

tor 9 having a shaft 10 on which a driving worm 11 is mounted, to mesh with a worm wheel 12 integrally formed on the exterior of a rotatable sleeve 13. The rotatable sleeve 13 is journaled within a bearing housing 14 secured to the floor 2 of the garage housing. The lower end of the rotatable sleeve 13 is supported on a roller bearing 15. The motor 9 is adapted to be controlled by a remote controlled switch of any desired type, adapted to be located at a convenient point on the outside of the garage housing or pit either within the home with which the sunken garage is associated, or within a locked box or casing, located in a position in which unauthorized persons would not be apt to find the same.

The interior of the rotatable sleeve 13 is provided with a spiral thread for receiving a spirally threaded vertical shaft or post 16 which is normally extended downwardly through the housing floor 2 into a protecting sleeve or casing 17, which projects downwardly into the ground below the housing 1. Secured on the upper end of the screw shaft 16 is a head 18, supporting a pair of crossed reinforcing beams 19, upon which a floor or platform 20 is mounted for receiving an automobile or vehicle which is to be lowered into the garage housing or raised therein, as the case may be. Rigidly secured on the underside of each corner of the platform 20 is a metal bracket 21, carrying a pair of guide rollers 22 which are adapted to track on vertical corner guide posts 23 rigidly secured in the vertical corners of the housing 1. Rigidly mounted upon the upper sides of the longitudinal margins of the platform 20 are a pair of side walls 24. Supported upon the upper ends of the side walls 24 is a wooden roof section 25, rigidly braced in position by means of a plurality of brace bars 26, secured in position beneath the wooden roof section 25 and the side walls 24.

The roof section 25 projects beyond the inner faces of the housing walls to seat in the grooves formed in the upper ends of said walls when the platform 28 is in its lowered position as illustrated in Figure 2. The longitudinal margins of the roof section 25 are provided with a plurality of drain passages 27, the lower ends of which communicate with the drain troughs 8. Rigidly secured upon the top of the wooden roof section 25 is a metal roof section 28, the middle portion of which is at a higher elevation than the side portions to afford inclined surfaces to facilitate drainage. Formed on the outer margins of the metal roof section 28 are upwardly directed flanges 29. The metal roof section 28 is provided with a plurality of apertures along the longitudinal margins thereof and said apertures are positioned to register with the drain passages 27 in the wooden roof section 25, to permit drainage of liquids which

might be deposited upon the metal roof section. The metal roof section 28, together with the flanges 29 thereof, form a tray or pan which is adapted to be filled with soil 30, the upper surface of which is sodded, and normally is disposed in the plane of the sod covering the surface of the ground in which the improved garage is built.

It will be noted that the improved garage is intended for use in connection with homes having beautiful lawns and gardens surrounding the same, which would be made unsightly by exposed garages which very often detract from the appearance of the home of which the garage forms a part.

Attention is also called to the fact that the improved sub-garage may be readily used in localities where the ground value is high and where the amount of garden space is extremely limited. In such cases it will be noted that the sodded roof section of the garage may be used as a garden-plot when the garage is closed.

The improved garage is provided with the manhole 5 to permit a person to gain access into the interior of the housing 1 by climbing down on the ladder 6 or any other convenient device and entering the auxiliary housing or chamber 3, which may be used for storing accessories or the like. It will, of course, be understood that the manhole 5 is provided for emergency uses only, since access may be had to the automobile on the platform 20 by operating the remote control push button or switch which governs the operation of the driving motor 9.

When a person desires to store his car, it is only necessary to operate the control switch causing the motor to rotate the worm 11 and the worm wheel 12, so that the sleeve 13 is rotated, causing the screw shaft 16 to revolve, thereby causing a smooth, gradual raising of the platform or table 20 until the upper face of the platform reaches the level of the ground. The automobile may then be driven onto the platform 20 through either open end thereof, after which the control switch may be operated to reverse the rotation of the motor 9 to cause the platform, carrying the automobile, to be gradually lowered into the garage housing 1 until the roof section seats in the pockets or grooves formed in the upper ends of the garage housing walls, with the sodded roof section 30 having the upper face thereof at the same level as the garden lawn, so that it is practically impossible to discern where the garage is located.

The ground area wherein the garage is mounted is, therefore, conserved and may be used for garden purposes or the like when the garage is closed. Rain or water deposited upon the garage roof garden is permitted to drain toward the sides of the metal roof section 28 through the drain passages 27

into the drain troughs 8, from which the water is permitted to be drained off into the ground through the drain pipes 7.

The improved garage is theft-proof and fire-proof and when the garage is closed the roof fits down practically air-tight so that the garage in winter is also freeze-proof.

I am aware that many changes may be made, and numerous details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted hereon, otherwise than necessitated by the prior art.

I claim as my invention:

1. A garage, comprising a housing completely mounted within the ground with the upper end of the housing substantially at the level of the ground and having grooves in the upper end thereof, a platform movably mounted within said housing, guide means secured on said platform, mechanism for raising and lowering the platform within said housing, a driving device for operating said mechanism, an inner roof section supported on said platform and normally adapted to seat in the grooves in the upper ends of the housing walls, a flanged metal roof section mounted on said inner roof section and a filling of earth and sod for said metal roof section, adapted to camouflage the location of the garage when the platform is lowered.

2. A garage of the class described, comprising a main housing, an auxiliary housing formed thereon, a manhole for affording access to said auxiliary housing, an automobile supporting platform movably mounted in said main housing, guide means therefor, mechanism for raising and lowering said platform within said main housing, a driving device connected with said mechanism, an inner roof section supported on said platform, an outer roof section mounted on said inner roof section, means in said roof sections for draining the same, and a filling for said outer roof section adapted to close the upper end of the main housing and conceal the location of the garage.

In testimony whereof I have hereunto subscribed my name at Chicago, Cook County, Illinois.

CARL F. DAVIS.

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