L. KULES.

DOOR HANGER.

APPLICATION FILED MAR. 13, 1920.

1,377,135. **Patented May 3, 1921.**

Fig 1

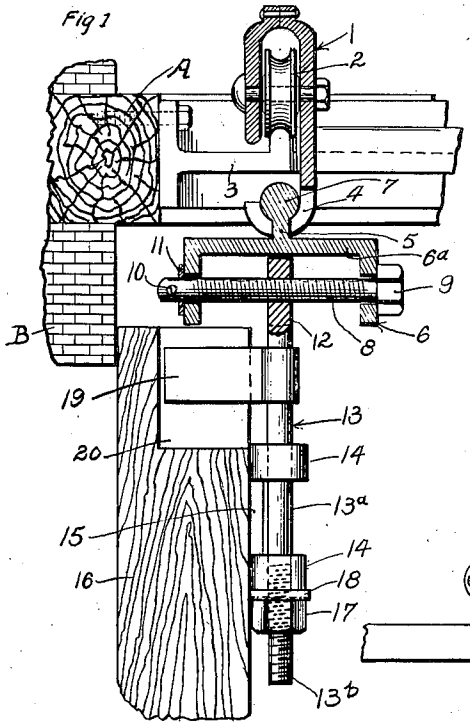
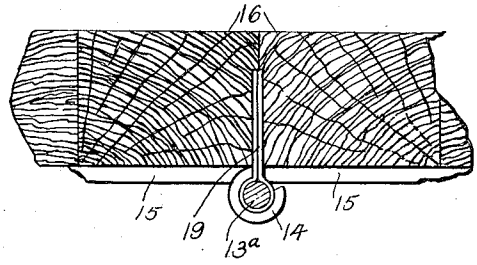


Fig 3



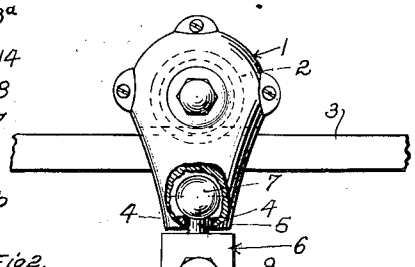
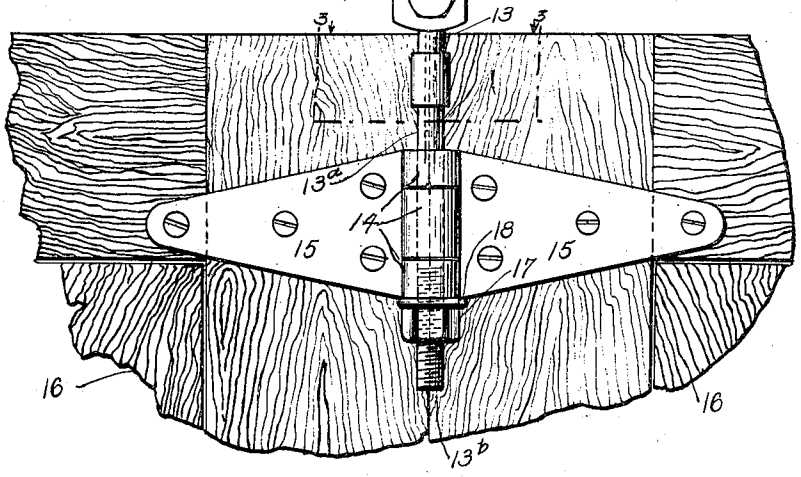


Fig 2.



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LEO KULES, OF MOUNT WASHINGTON, PENNSYLVANIA.

DOOR-HANGER.

1,377,135. Specification of Letters Patent. Patented May 3, 1921.

Application filed March 13, 1920. Serial No. 365,528.

To all whom it may concern:

Be it known that I, LEO KULES, a citizen of the United States, residing at Mount Washington, in the county of Allegheny and State of Pennsylvania, have invented new and useful Improvements in Door-Hangers, of which the following is a specification.

This invention relates to door hangers, and more particularly to a hanger especially adapted to be used in connection with garage doors.

One of the main objects of the invention is to provide a hanger by means of which the door may be readily adjusted vertically and toward and away from the door opening so as to accommodate swelling or warping of the door sill or casing. Another object is to provide a hanger which will prevent sagging of any of the door sections. A further object is to provide a swivel support for the door sections so as to permit the same to turn sharp corners to facilitate travel of the door upon an L-shaped track, such as now in common use in garages, from in front of the door opening into a position at one side of and within the garage. Further objects will appear from the detailed description.

In the drawings:—

Figure 1 is a side view, partly in section, of the hanger applied, one of the door sections and the hinge leaf carried thereby being removed.

Fig. 2 is an inside front view of the hanger as applied.

Fig. 3 is a section taken substantially on line 3—3 of Fig. 2.

The hanger includes a housing 1 within which is rotatably mounted a grooved wheel 2 constituting a truck member adapted to travel upon a track 3 of known type which preferably extends above the door opening and along one side of the garage in the known manner so as to permit the door to be moved from in front of the door opening into a position closely adjacent and parallel with one side wall of the garage.

The lower end portion of the inner plate of housing 1 is turned upwardly and outwardly and bifurcated to form an upwardly directed hook element composed of two spaced fingers 4. These fingers receive between them a neck 5 extending upwardly from the central portion of bight 6^a of an inverted U-shaped bracket 6, and provided at its upper end with an enlarged cylindrical head 7 seated in the hook. This provides a swivel support which permits the bracket to turn in either direction about a vertical axis and to any desired extent so that the door can readily make short turns.

An adjusting screw 8 is mounted for free rotation in either direction through the arms of bracket 6, and is held against endwise movement in either direction by a hexagonal head 9 and a cotter pin 10 and washer 11. This screw is threaded through an eye 12 of a depending eye bolt 13 the shank of which passes through the interfitting sleeves 14 of hinge leaves 15 secured to the inner faces of two adjacent door sections 16. The lower portion of shank 13^a of the eye bolt is threaded at 13^b to receive a nut 17 which bears against a washer 18 interposed between the nut and the lowermost hinge sleeve 14. The eye bolt thus serves as a pintle for the hinge, and the point of suspension of the door sections is in vertical alinement with the hinge pintle thus insuring proper balancing of the door sections and effectually eliminating all tendency of any one section to sag away from the adjacent section, which frequently occurs when hangers positioned to one side of the hinge, such as are now commonly used, are employed. Also, by means of nut 17 the door may be readily adjusted vertically so as to properly fit the door opening and accommodate swelling or warping of the door sill or casing.

The track 3 is secured in any suitable manner to a beam A which may be set into the wall B of the garage, or secured to the wall in any preferred or well known manner. This track is preferably of L-shape extending above the door opening and along one side of the garage. The door is formed of two or more hingedly connected sections, the end sections forming door elements to permit ready access of a person to the garage without the necessity of moving the whole door structure. In this respect, the swivel support for the eye bolt 13 is of value in permitting the door sections to make short turns about the angle of the track thus eliminating danger of the door binding or jamming.

As will be noted more clearly from Figs. 1 and 3, the bolt 13 is provided with a radially projecting tongue 19 which is rigid with the bolt and fits between the door sec-

tions which are provided with recesses 20 for this purpose. This tongue holds the bolt against turning movement relative to the door sections and insures that bracket 6 will be held at right angles to the door so as to permit ready access to head 9 of screw 8 and facilitate adjustment of the door toward or away from the door opening.

As will be understood, slight changes may be made in the details of construction and arrangement of parts of the invention without departing from the field and scope of the same, and I intend to include all such variations, as fall within the scope of the appended claims, in this application in which a preferred form only of my invention is disclosed.

What I claim is:

1. In a door hanger, a truck including a depending plate, a bracket depending from said plate and swiveled thereto so as to turn about a vertical axis, a member adapted to be attached to a door, and an adjusting screw freely rotatable in the bracket and held against endwise movement therethrough, said screw being threaded through the upper end of said member.

2. In a door hanger, a truck including a depending plate provided with spaced upwardly curved fingers, a bracket of substantially inverted U-shape provided at its bight portion with a neck passing between said fingers and provided at its upper end with an enlarged head fitting into the fingers, an eye bolt, and an adjusting screw rotatably mounted through the arms of the bracket and threaded through the eye of the bolt, said screw being held against endwise movement through the bracket arms.

3. In combination with two adjacent door sections and hinge leaves secured thereto and having interengaging sleeves, a bolt having its shank passed through said sleeves, an abutment member secured on the bolt below the sleeves, a truck, a bracket suspended from said truck and movable about a vertical axis, said bolt being provided at its upper end with an eye disposed parallel with the door sections, an adjusting screw rotatably mounted in the bracket and threaded through said eye, and means for holding the bolt against turning movement relative to the door sections.

In testimony whereof I affix my signature.

LEO KULES.