J. E. ORR.

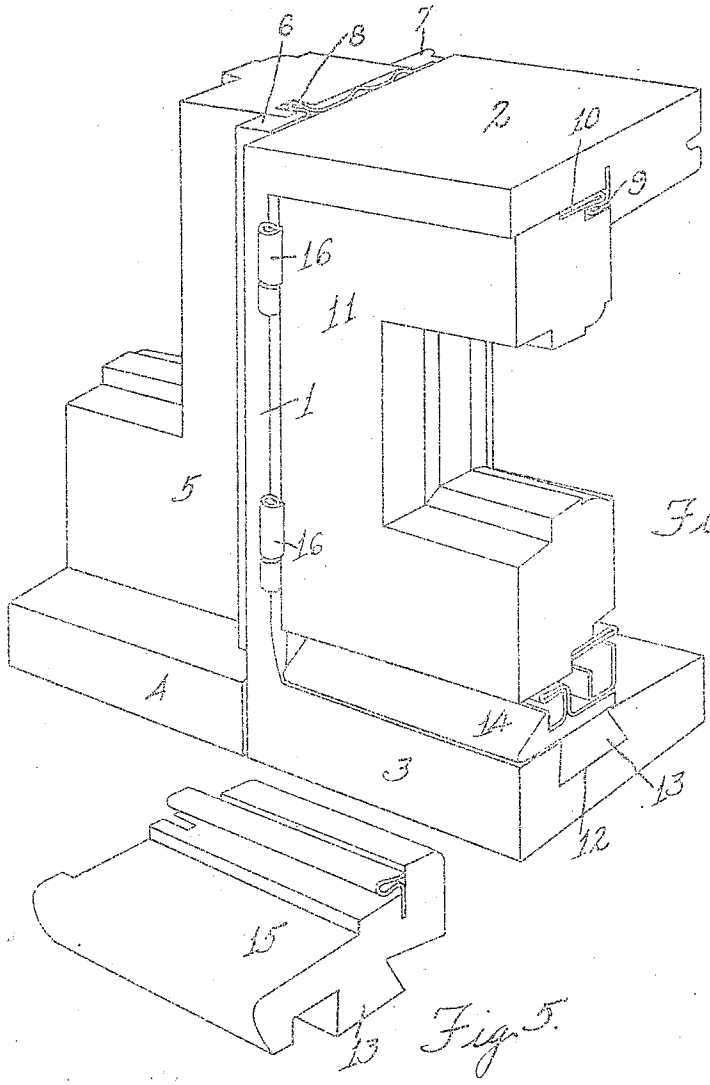
MODEL ILLUSTRATING WINDOW CONSTRUCTION.

APPLICATION FILED JUNE 13, 1918.

1,292,508.

Patented Jan. 28, 1919.

3 SHEETS—SHEET 1.



Inventor
JOHN E. ORR

Witness
Frank Collins

By Charles E. Wilson

Attorney

J. E. ORR.

MODEL ILLUSTRATING WINDOW CONSTRUCTION.

APPLICATION FILED JUNE 13, 1918.

1,292,508.

Patented Jan. 28, 1919

3 SHEETS—SHEET 2.

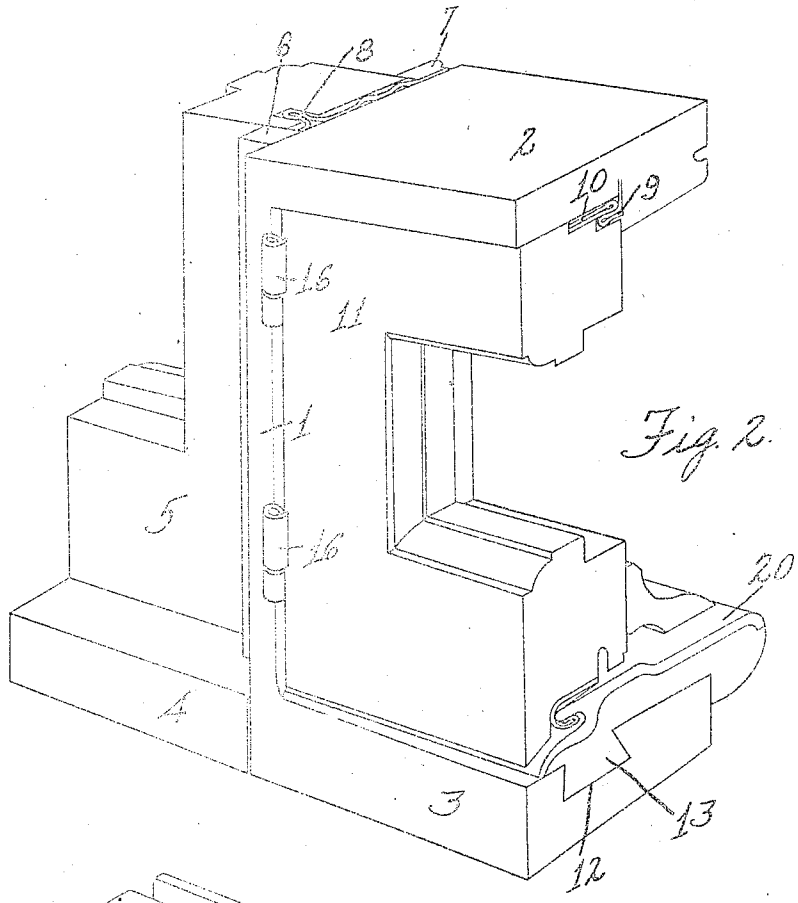


Fig. 2.

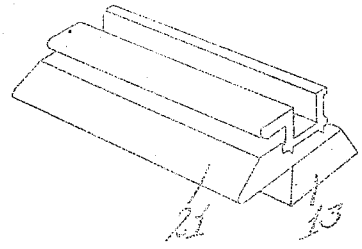


Fig. 4.

Witness
Emma Williams

Inventor
JOHN E. ORR

By Charles E. Hines
Attorney

J. E. ORR.

MODEL ILLUSTRATING WINDOW CONSTRUCTION.

APPLICATION FILED JUNE 13, 1918.

1,292,508.

Patented Jan. 28, 1919.

3 SHEETS—SHEET 3.

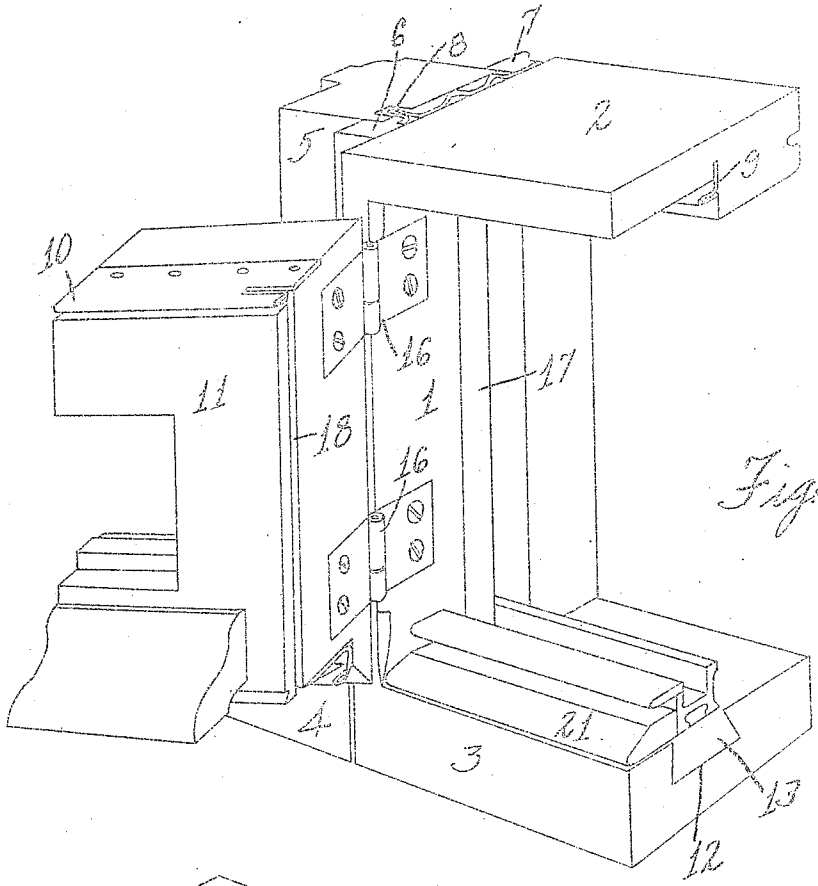


Fig. 3.

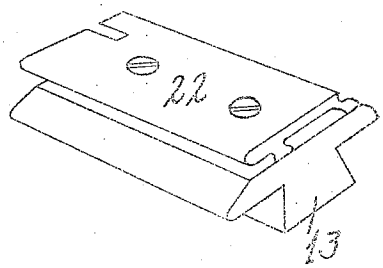


Fig. 6.

Inventor
JOHN E. ORR

Witness
Emmett B. Wilson

By Charles E. Kinney
Attorney

UNITED STATES PATENT OFFICE.

JOHN E. ORR, OF NEW YORK, N. Y., ASSIGNOR TO CHAMBERLIN METAL WEATHER STRIP CO., OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

MODEL ILLUSTRATING WINDOW CONSTRUCTION.

1,292,508. Specification of Letters Patent. Patented Jan. 28, 1919.

Application filed June 13, 1918. Serial No. 239,871.

To all whom it may concern:

Be it known that I, JOHN E. ORR, a citizen of the United States, residing at New York, county of New York, State of New York, have invented a certain new and useful Improvement in Model Illustrating Window Construction, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to models illustrating window and door construction, and the principal object of the model is to provide a device showing the various types of weather stripping utilizable in weather-proofing doors and windows to demonstrate the utility thereof. In particular the invention consists in providing a model showing a part of a door and part of a frame therefor and part of a window frame and sash, of both hinged and sliding form, having portions thereof in section exposing to view the construction of the weather stripping on the sash and frame members carrying the same. A further novel feature of the invention resides in providing a sill for the hinged door or window section having a plurality of inserts adapted to be readily positioned thereon each insert carrying a type of weather stripping for a door or a window, the construction enabling one type of weather stripping to be replaced with another to illustrate the relationship and utility of the various types. To this end therefore, the invention consists in providing a model formed of a section of a frame and section of a door and window sash having several interchangeable parts enabling it to be built up to illustrate uses of the various well known types of weather stripping.

In the drawing—

Figure 1 is a perspective view of my improved model as set up to illustrate a construction used with hinged or sliding window sash and weather stripping used in conjunction therewith.

Fig. 2 is a perspective view showing the model built up to illustrate the weather stripping as used with a door.

Fig. 3 is a perspective view of the model showing a door section in open position.

Fig. 4 is a perspective view of an insert adapted to be attached to the base of the frame for the hinged door or sash showing one type of weather stripping.

Fig. 5 is a perspective view showing an insert illustrating a threshold and weather stripping therefor.

Fig. 6 is a perspective view of another type of weather stripping used with hinged windows.

The model consists of a part 1 being a side member of the window or door frame having connected therewith the parts 2 and 3 extending at a right angle thereto, illustrating a sectional part of the upper and lower cross members of a door or window frame. The upright member 1 has also attached thereto a portion 4 opposite the portion 3 providing a sill for a sectional sliding sash 5, the part 1 being provided with stops 6 and 7 as in the usual window construction, and in the groove formed therebetween is secured the weather stripping 8, the sash being grooved to receive a tongue of the metal strip as in the ordinary construction.

It is to be noted that the sash member 5 is a section of a corner of a sash and by forming the model of such sections the cross section of the sash and weather stripping and arrangement of the window is clearly exposed to view, and the function of the weather stripping made evident. The part 2 of the frame portion is a section only of the usual upper frame which is provided with usual weather stripping 9 extending longitudinally thereof and engaged by a complemental strip 10 carried by the window frame 11. This frame 11 is also in section in order to expose the weather stripping. The base 3 of the frame is provided with an undercut groove 12 and the various inserts showing types of weather stripping used with hinged window sash or doors, as indicated in Figs. 4, 5 and 6, are each provided with a tongue 13 fitting this groove which extends longitudinally of the frame 3. By withdrawing the member 14 illustrated in Fig. 1 from position in the groove and inserting the threshold 15 as indicated in Fig. 5, the types of weather stripping for this type of window sill are shown. A particular feature of this invention is in the provision of the weather stripping of various types each on a removable part or insert having the tongue 13 fitting the groove 12 of the base 3 so that the parts are inter-

changeable to illustrate the use of the various types of weather stripping. With either the door or window frame section in position on the hinges 16 secured to the frame 1, the upright portion 2 of the frame 1 is provided with a metal strip 17 and both the door and window frame are provided with a groove 18 in which the strip engages when the window sash or door is in closed position as indicated in Figs. 1 and 2. It is also to be understood that both the door and window frame may be turned to the position shown in Fig. 3 and raised from the pintle of the hinge so that the sash may be removed and replaced with a similar section. The model may thus illustrate all the various types of weather stripping for doors and windows either hinged or sliding.

Inasmuch as the types of weather stripping here illustrated are well known and new in use no description of the functions thereof is herein given as the features of the type of weather stripping shown form no part of this invention, which consists wholly in the formation of a model of parts of window and door frame construction, and the sash or door in usual relation therewith together with the plurality of removable parts fitting the base of the frame as described. It is further evident that the tongue 13 on these removable portions is positioned thereon in such relative position to the weather stripping that the same will be properly positioned relative to the door or window sash used therewith. For instance, as shown in Fig. 2 the threshold 20 is shown with the necessary weather stripping. This threshold may be removed by withdrawal from the groove and the part 21 illustrated in Fig. 4 positioned thereon as shown in Fig. 3, or the part 22 as illustrated in Fig. 6 may be utilized, and thus the uses of the various types of weather stripping made clear and definite.

Having thus briefly described my invention, what I claim and desire to secure by Letters Patent of the United States is—

1. A model illustrating window and door construction consisting of a section of a door or window frame having a vertical side member and a part of an upper and a lower cross member, a section of a door or sash in hinged relation therewith, weather stripping carried by the upper cross member and the vertical side frame engaged by the door or window section when closed, a removable strip carried by the lower cross member and weather stripping complemental thereto carried by the lower cross member of the door or window.

2. A model illustrating window and door construction consisting of a section of a door or window frame having a vertical member and part of an upper and part of a lower cross member extending at a right angle thereto, said vertical member being provided upon one side with window stops, weather stripping adaptable for use therewith, a section of sash bar slidably supported therein, weather stripping on the upper cross member and vertical side member, a section of a door or window in hinged relation therewith adapted to engage the said weather stripping, the lower cross member having a longitudinal undercut groove, and a plurality of interchangeable inserts, each having a tongue fitting the groove and each carrying a different type of weather stripping, the lower portion of the said door or window section having weather stripping adapted to coöperate with the various types carried by the sections.

3. In a model illustrating window and door construction consisting of a vertical frame member illustrating the side frame of a door or window having a section of the upper and lower cross members extending at a right angle thereto, the opposite side of the vertical frame showing a portion of the window stops and weather stripping therebetween providing a sash groove, a sill extending at a right angle to the said upright member also provided with a sash groove, a section of a slidable window sash in the said groove, the said vertical and upper cross member on the side opposite the said grooved portion carrying weather stripping and being adapted to receive a section of a hinged door or sash, said lower cross member being adapted to receive a removable portion carrying weather stripping, and a plurality of interchangeable sections adapted to be positioned on the lower cross member, each illustrative of a type of construction of weather stripping adapted to coöperate with the weather stripping with which the lower side of the hinged sash or door is provided.

4. A model illustrative of door and window construction and weather stripping therefor consisting of a frame member illustrative of a section of a window or door frame, a section of a window sash or door in hinged relation therewith having a complemental vertical and upper and lower cross members, weather stripping carried by said upper and lower cross members, a removable member carried by the lower cross member of the window or door frame, and weather stripping carried by the removable member complemental to the weather stripping on the lower cross member of the hinged portion.

5. A model illustrating door or window construction and weather stripping therefor consisting of a frame member having a lower horizontal member in section, a window sash or door having a horizontal member in section, weather stripping carried by the said horizontal member of the door or

sash, the said frame member having a longitudinal groove, and a plurality of interchangeable strips or inserts, weather stripping on each insert, the weather stripping being of various well known types complemental to that of the door or sash, and said inserts each forming, in conjunction with the horizontal frame member, a sill or threshold.

6. A model illustrating window and door construction consisting of a weather stripped door or window frame, the lower cross member thereof showing in end section, a removable strip carried by the said lower cross member showing the weather stripping in end section, and weather stripping complemental thereto carried by the lower cross member of the door or window.

7. A model illustrating door and window construction and weather stripping therefor consisting of a frame member having an upper and a lower cross member in section, a window sash or door having an upper and lower cross member in section, weather stripping carried by the said cross members of the door or sash and both the frame members and door or sash members showing the weather stripping in section and illustrating the coöperative function thereof, when in closed relation, and a plurality of removable strips or inserts for use on the frame whereby various types of weather stripping complemental to that of the door or sash may be illustrated in use.

8. In a model illustrating window and door construction, a vertical frame member showing an end section, window stops thereon providing a sash groove, a section of weather stripping in said groove, and a slidable sash member therein showing an end section and illustrating the coöperative relation with the weather stripping, a section of a sill, and a section of a cross member of the sash illustrative of the coöperative relationship of the parts.

9. A model illustrating window and door construction consisting of a weather stripped door or window frame, parts thereof including the weather stripping showing in end section, a section of a door or window adapted to be assembled therewith and having complemental weather stripping showing in end section, the assembled parts showing the construction and illustrating the mode of operation of the complemental strips.

In testimony whereof I sign this specification.

JOHN E. ORR.