

(No Model.)

G. W. MORRIS.
WEATHER STRIP.

No. 485,747.

Patented Nov. 8, 1892.

Fig. 1.

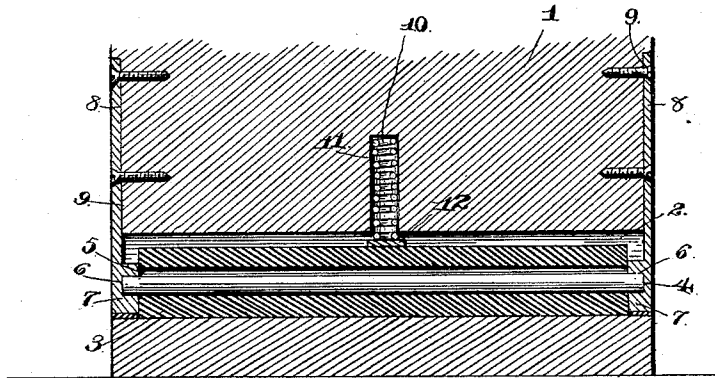


Fig. 2.

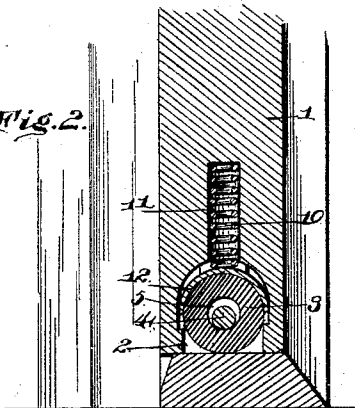


Fig. 3.

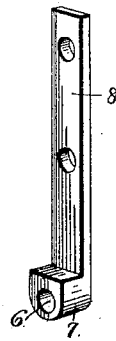
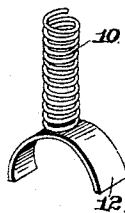


Fig. 4.



Witnesses

Charles Ford.
N. H. Riley

Inventor

George W. Morris.

By *his* Attorneys,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

GEORGE W. MORRIS, OF MINONK, ILLINOIS, ASSIGNOR OF ONE-HALF TO A. B. KIPP, OF SAME PLACE.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 485,747, dated November 8, 1892.

Application filed March 26, 1892. Serial No. 426,629. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. MORRIS, a citizen of the United States, residing at Minonk, in the county of Woodford and State of Illinois, have invented a new and useful Weather-Strip, of which the following is a specification.

The invention relates to improvements in weather-strips.

The object of the present invention is to provide a weather-strip which will be simple and inexpensive in construction, capable of effectually excluding rain, snow, wind, dust, and the like, and adapted to be readily applied to any door.

A further object of the invention is to provide a weather-strip which will be capable of withstanding severe use and which will not injure carpets.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is a vertical sectional view of the lower portion of a door provided with a weather-strip constructed in accordance with this invention. Fig. 2 is a transverse sectional view. Fig. 3 is a detail perspective view of one of the bearing-plates. Fig. 4 is a similar view of the tension device.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a door provided in its lower edge with a curved groove 2, adapted for the reception of an elastic roll 3, which is loosely mounted on a rod or spindle 4 and is provided with a central bore 5, considerably larger than the diameter of the spindle, whereby the roll will be capable of a limited vertical movement, so as to engage the sill of a door closely to exclude rain, snow, wind, dust, and the like. The spindle is journaled in bearing-openings 6 of lugs 7, formed integral with plates 8 and arranged on the inner faces of the same at the lower ends thereof, and

the plates are secured by screws in recesses 9 in the side edges of the door. The roll is held against the sill of a door by a tension device consisting of a spiral spring 10, arranged in a central socket 11 of the door, and a curved plate 12, secured to the lower end of the spring and having its concave face bearing upon the upper face of the roll. The tension device is centrally arranged and holds the roll firmly against a sill, but is capable of yielding to permit the roll to conform to the sill and to prevent the parts being injured.

The elastic roll is preferably constructed of rubber and it extends along the entire lower edge of the door in the groove thereof.

It will be seen that the weather-strip is simple and inexpensive in construction, that it possesses great strength and durability, and that it is capable of effectually excluding rain, snow, wind, dust, and the like.

From the foregoing description and the accompanying drawings the construction, operation, and advantages of the invention will be readily understood.

What I claim is—

The combination, with a door having a groove in its lower edge and provided with a socket, of stationary plates secured to the side edges of the door and provided with bearing-openings, a spindle journaled in the bearing-openings, an elastic roll mounted on the spindle and provided with a central bore considerably larger than the spindle to enable it to have a limited vertical movement, said roll being located in the groove of the door, a spring arranged above the roll and located in the socket, and a curved plate secured to the lower end of the spring and engaging the upper face of the roll to force the latter downward, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

GEORGE W. MORRIS.

Witnesses:

THOS. J. TAYLOR,
S. E. HILSABECK.