

(No Model.)

E. P. HAFF.

CASE FOR THERMOMETERS AND WEATHER GLASSES.

No. 306,014.

Patented Sept. 30, 1884.

Fig. 1.

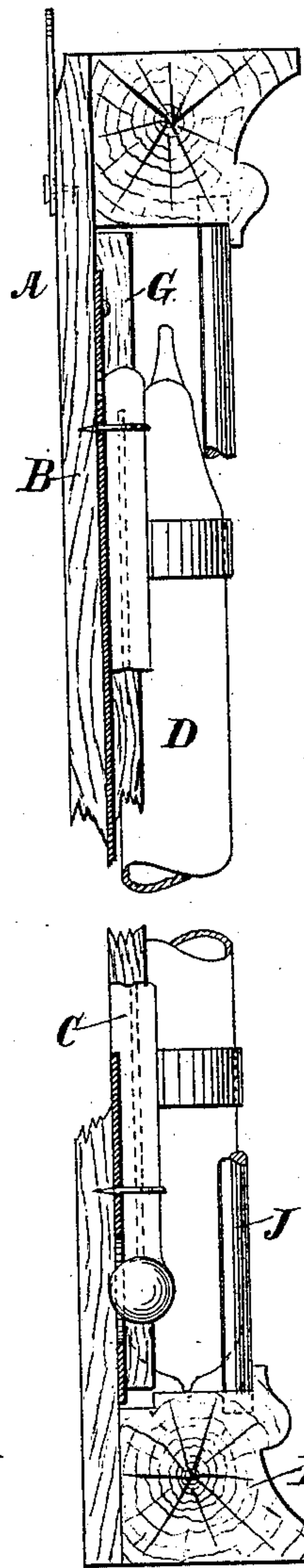
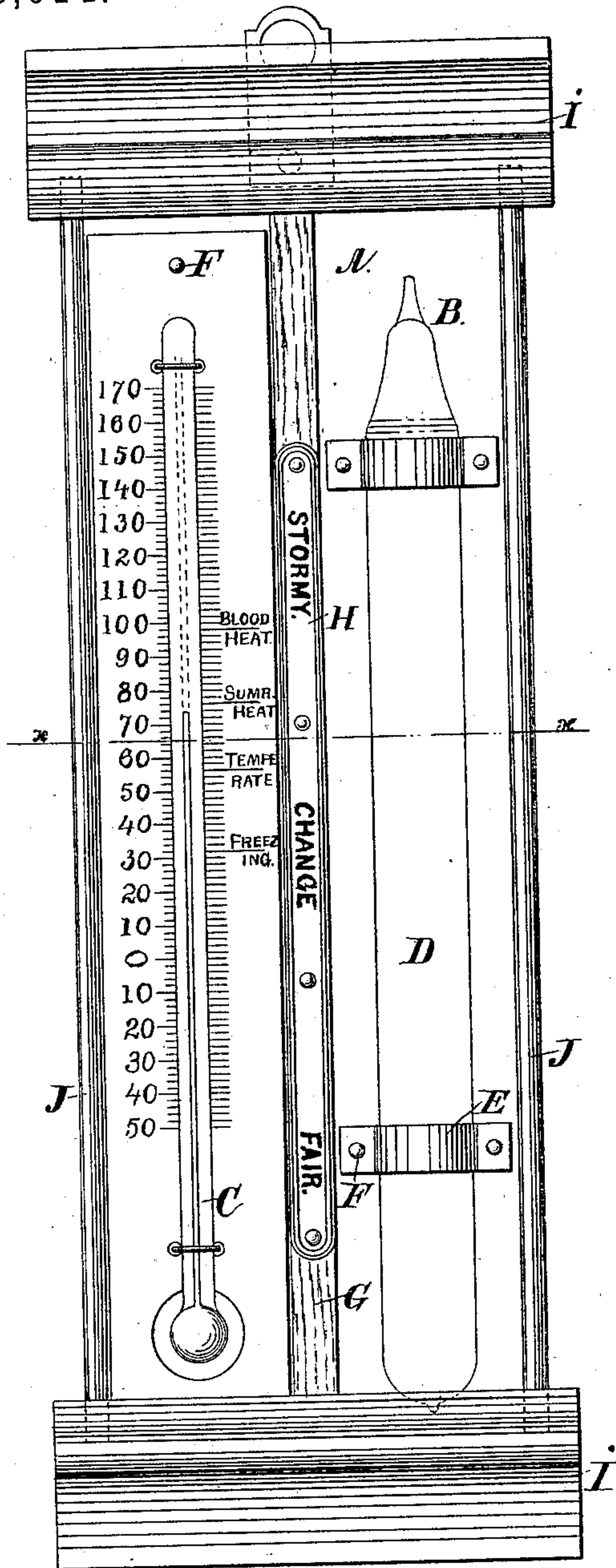
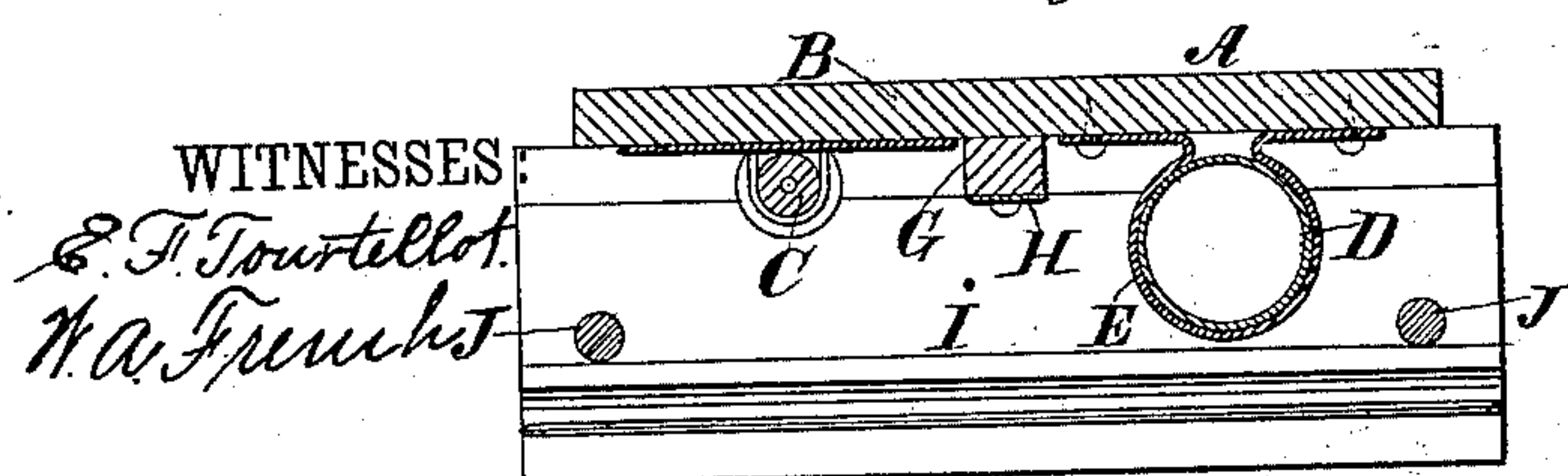


Fig. 2.

Fig. 3.



WITNESSES:

E. T. Tourtellot.
H. A. French.

INVENTOR

Edward P. Haff.

BY

Geo. H. Benjamin
his ATTORNEYS

UNITED STATES PATENT OFFICE.

EDWARD P. HAFF, OF BROOKLYN, NEW YORK.

CASE FOR THERMOMETERS AND WEATHER-GLASSES.

SPECIFICATION forming part of Letters Patent No. 306,014, dated September 30, 1884.

Application filed April 16, 1884. (No model.)

To all whom it may concern:

Be it known that I, EDWARD P. HAFF, of the city of Brooklyn, county of Kings, and State of New York, have invented a new and useful Improvement in Cases for Thermometers and Weather-Glasses, of which the following is a specification.

My invention consists in a box, case, or support having its back, or the part to which the thermometer and weather-glass are attached, made of wood or sheet metal, and provided with ornamental moldings attached to the top and bottom thereof, into which are inserted, on each side of the case and above the level of the thermometer-bulb and weather-glass, strips or rods of metal so arranged as to give rigidity to the case. I thus obtain a case easily and cheaply made, which, while supporting the instrument or instruments, will not warp or bend out of shape, and thus destroy the glass tubes, and which serves to protect it or them, and thus enable the entire device to be safely and conveniently packed with like apparatus for shipment.

In the accompanying drawings, forming a part of this specification, similar letters of reference indicate like parts, in which—

Figure 1 is the front view, Fig. 2 is a vertical section, and Fig. 3 a transverse section on the line *x x*, of my device.

Both the thermometer and weather-glass are shown and inclosed in one case. A is the box or case, and B is the back thereof, which may be formed of a plate of wood, hard rubber, sheet metal, or other equivalent material, and which serves as a support to the thermometer C and weather-glass D, which can be attached thereto by means of strips of sheet metal, E, which are passed around the glass tube of the weather-glass and fastened to the material of the back of the case by means of pins or rivets F. The thermometer C, which is arranged on the opposite side of the case from the weather-glass, is attached to the degree-plate by means of wire in the usual manner, and the degree-plate fastened to the back of the case by pins or rivets. The back of the

case immediately under the thermometer-bulb is slightly hollowed out to receive the bulb. Arranged vertically in the middle of the case and dividing the thermometer from the weather-glass is a strip of wood, G, upon which is arranged a metal plate, H, having the words "stormy," "change," "fair" printed or stamped thereon. Arranged on the top and bottom of one side of the plate B are the ornamental moldings I I, made of wood, tin, or other suitable material.

J J are rods of nickel-plated brass inserted into or screwed into holes made to receive them on each side and near the outer edge of the moldings on the top and bottom of the case. The rods J and J are preferably so arranged as to lie in a plane above that occupied by the surface of the thermometer-bulb and weather-glass.

My object in arranging the different parts of my device as above described is to form a case which shall be light and easily made, and which shall be rigid and not tend to warp or bend, which in the case of most of the forms of thermometer and weather-glass cases, as heretofore used, made of wood, have been liable to distortion to such an extent as to destroy and break the glass tubes of the instruments.

To the upper part and back part of the case on its rear side I attach a loop of sheet metal, for convenience in suspending the apparatus.

I claim as my invention—

1. A case for thermometers and weather-glasses, formed of a quadrangular plate of wood, rubber, or sheet metal, having attached to said plate the rod of wood, G, molding-pieces I I, and metallic rods J J, substantially as described.

2. The combination of the thermometer C, weather-glass D, plate B, rod H, rod G, molding-pieces I, and metallic rods J J, substantially as described.

EDWARD P. HAFF.

Witnesses:

GEO. H. BENJAMIN,
W. A. FRENCH.