

No. 685,204.

Patented Oct. 22, 1901.

M. F. EWEN.

APPLIANCE FOR FIXING SHEETS OF GLASS FOR GRINDING, POLISHING, OR
OTHER OPERATIONS.

(Application filed Dec. 10, 1900.)

(No Model.)

Fig. 1.

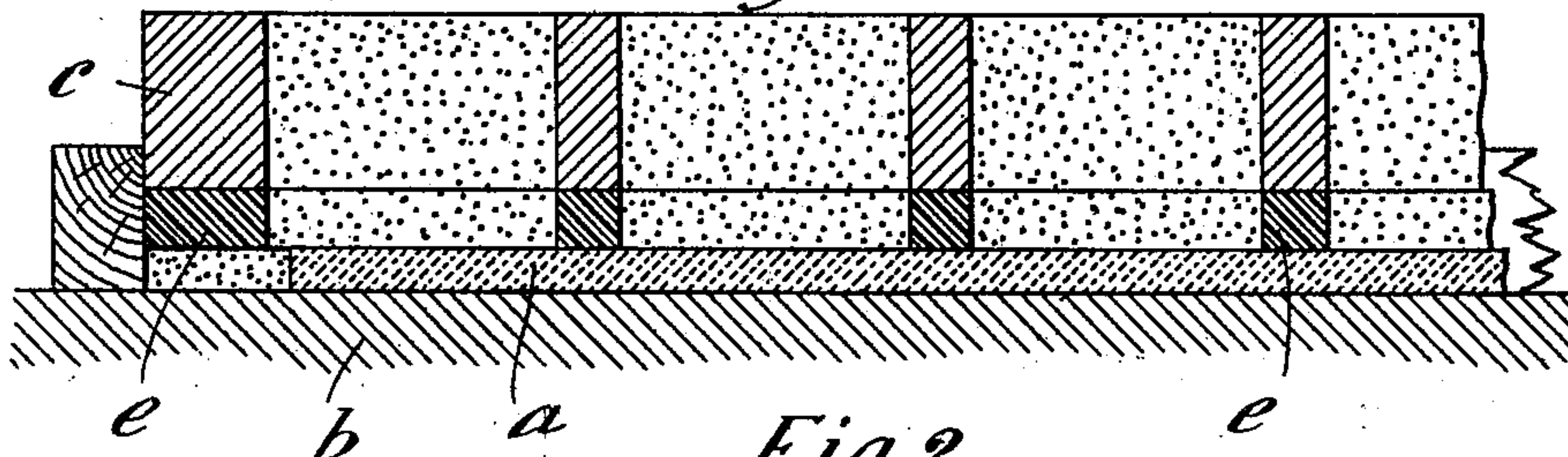
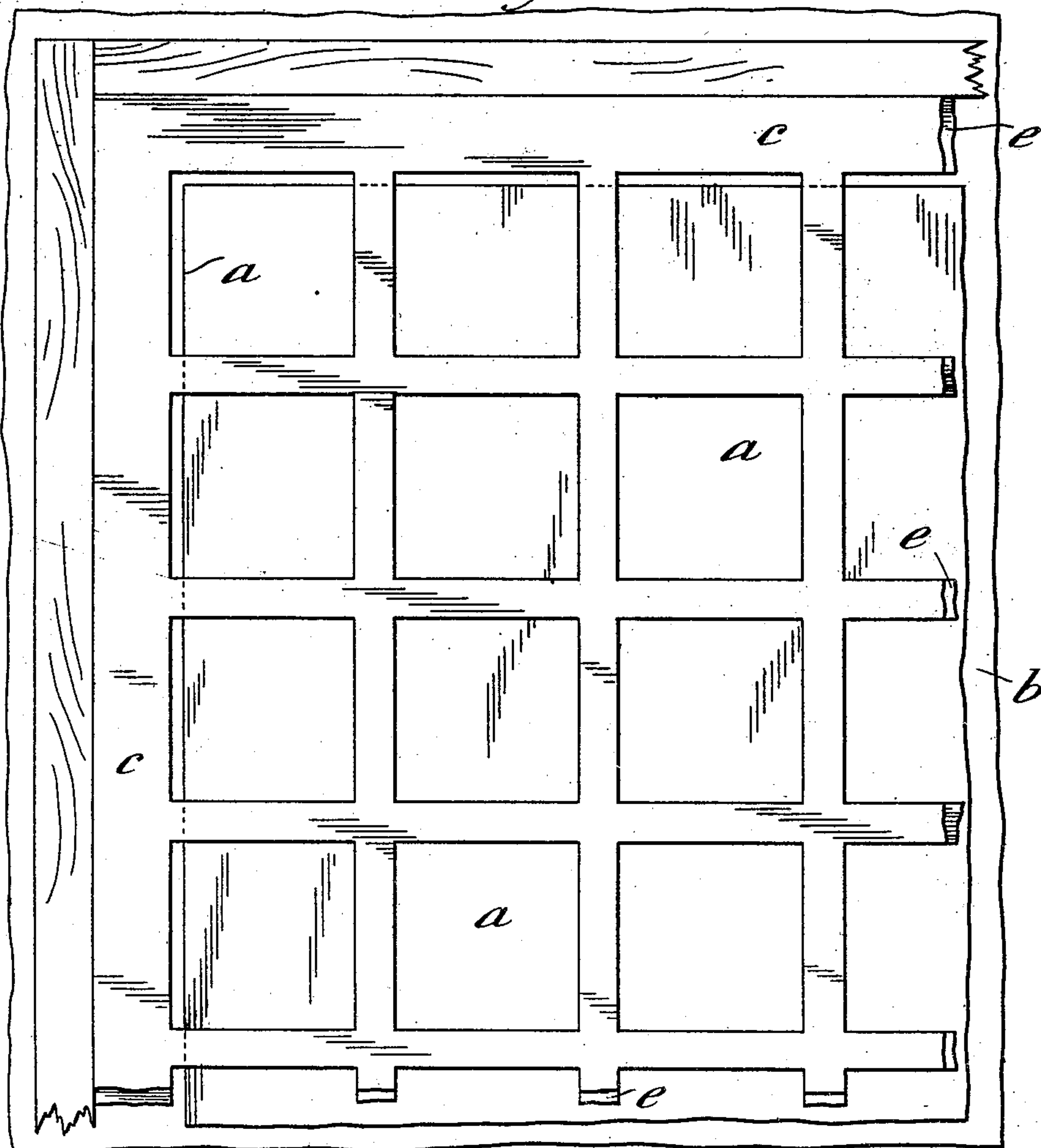


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

MALCOLM F. EWEN, OF LONDON, ENGLAND, ASSIGNOR TO THE GRACE-CHURCH SYNDICATE, LIMITED, OF LONDON, ENGLAND.

APPLIANCE FOR FIXING SHEETS OF GLASS FOR GRINDING, POLISHING, OR OTHER OPERATIONS.

SPECIFICATION forming part of Letters Patent No. 685,204, dated October 22, 1901.

Application filed December 10, 1900. Serial No. 39,376. (No model.)

To all whom it may concern:

Be it known that I, MALCOLM FAULKNER EWEN, a citizen of the United States of America, residing at No. 144 High Holborn, London, England, have invented a certain new and useful Appliance for Fixing Sheets of Glass or other Material for Grinding, Polishing, and other Operations, of which the following is a specification.

My invention relates to an appliance for holding a sheet of glass or other material while it is being ground, polished, or otherwise operated on, as I shall describe, referring to the accompanying drawings.

Figure 1 is a longitudinal section, and Fig. 2 is a plan, showing an appliance according to my invention.

I lay the sheet *a* on a truly-flat slab or table *b* with the face that is to be operated on downward. Over this I place a rather heavy rectangular grating *c*, having both its faces planed true and parallel. On the sheet I place a perforated mat *e*, of rubber or other elastic material, which yields more or less to the inequalities of the sheet, and over this I place the grating *c*, and then into the openings of the grating I pour a heated cementing composition consisting principally of wax and pitch or such like materials. This on cool-

ing sets on the sheet, holding it firmly on the grating. The sheet being thus fixed, I invert the grating, so as to present the sheet with its face upward to be operated on as required. After the sheet has been operated on I pour warm water over it, so as to soften or partly fuse the cement, allowing the sheet to be removed.

Having thus described the nature of my said invention and the best means I know of carrying the same into practical effect, I claim—

An appliance for holding a plate of glass or the like, consisting of an elastic mat superposed upon the plate and provided with a plurality of apertures, a frame superposed upon the elastic mat and provided with a plurality of apertures communicating with the apertures in the mat, said frame and mat being attached to the plate by a fusible cement poured in the apertures while in a melted condition, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

MALCOLM F. EWEN.

Witnesses:

GERALD L. SMITH,
EDWARD GARDNER.