J. & G. HOFFMANN.

Machine for Grinding and Fitting Pearl Veneers.

No. 168,493. Patented Oct. 5, 1875.

Fig. 1.

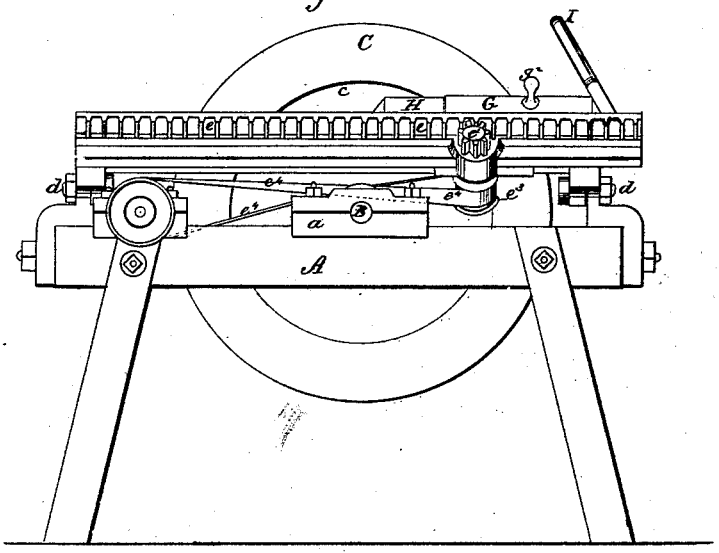


Fig. 2.

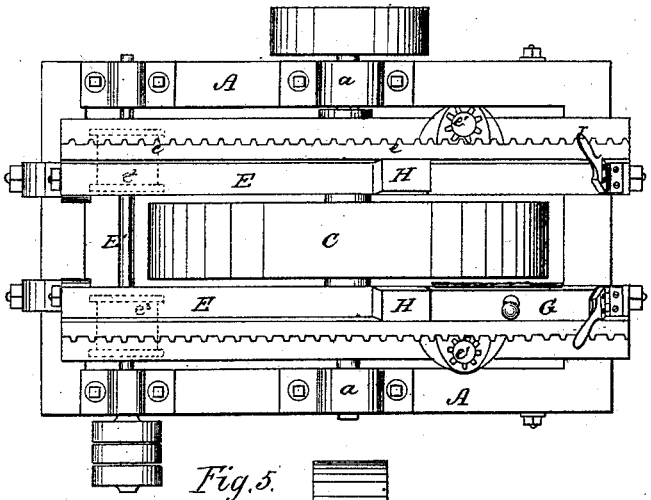


Fig. 3.

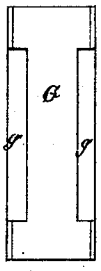


Fig. 4.

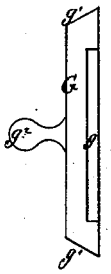
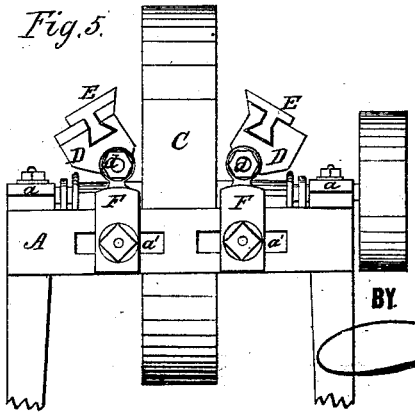


Fig. 5.



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UNITED STATES PATENT OFFICE.

JACOB HOFFMANN AND GEORG HOFFMANN, OF PHILADELPHIA, PA.

IMPROVEMENT IN MACHINES FOR GRINDING AND FITTING PEARL-VENEERS.

Specification forming part of Letters Patent No. **168,493**, dated October 5, 1875; application filed July 29, 1875.

To all whom it may concern:

Be it known that we, JACOB HOFFMANN and GEORG HOFFMANN, of the city and county of Philadelphia and State of Pennsylvania, have invented an Improvement in Machines for Grinding and Fitting Pearl-Veneers; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is a side elevation; Fig. 2, a plan view; Figs. 3 and 4, details of gage and holder; Fig. 5, an end elevation, showing slides and clamps.

The invention will first be described in connection with drawing, and then pointed out in the claims.

A represents the machine's frame, upon which is supported, upon suitable bearings *a a*, the shaft B, to which is made fast the circular grinder C, having the central and circular side recesses *c c*. D D are frames, extending on each side of the grinder, and arranged upon screw-pivots *d d*, whereto they are clamped, so as to have any desired obliquity to the side of the grinder. In these frames work the traveling-carriages E E, whose rack-bars *e* may be moved by pinions e^1, pulleys e^2 e^3, and belts e^4. The pulleys e^2 e^3 are adjustable on the drive-shaft E′, to accommodate themselves to the position of frames D, the latter being supported in clamps F F that are movable in the slots *a′* of frame A, so as to approach the sides of the grinder, more or less. G is a gage and holder, which receives the pearl or other article to be ground into shape, having recesses *g* for that purpose, being end-beveled at g^1 g^1, and being provided with a top pin, g^2, by which it may be easily handled. H is a stop or block on each carriage, arranged against the rack-bar, and tapered inwardly from top to bottom, so that veneers or pieces of varying thickness may be held without difficulty. I is a hinged dog, having a bevel on its front face to correspond with the bevels *g′* on gage and holder.

The piece or strip of pearl or other article is placed under one of the recesses *g*, and rests on the carriages, the carriages having been adjusted at the required obliquity to the grinder. The gage is then gradually moved against the side of grinder until the circular recess *c* is reached, which affords the necessary clearance. Should the side surfaces be even when the veneers have reached the other side of grinder-shaft, the edge or bevel just ground on them would be seriously damaged by the upwardly-moving side surface of the grinder. The strip is then placed on the opposite recess of gage, and finished upon the other side.

Each carriage or plate E is placed above the grinder-shaft to prevent the veneer from being smeared with oil or grease, and thus rendered unfit to be properly glued.

Having thus described our invention, what we claim as new is—

1. The end-beveled gage G, combined with beveled block H and beveled hinged dog I, as and for the purpose specified.

2. The combination, with carriages or plates E, of a veneer-gage and holder G having the recesses *g*, as and for the purpose specified.

3. The combination, with carriage-supporting frames D, of the block-bearings F, movable in slots *a* of machine-frame, as and for the purpose specified.

JACOB HOFFMANN.
GEORG HOFFMANN.

Witnesses to both signatures:
CHARLES KRAPF,
ADOLPH MEYER.