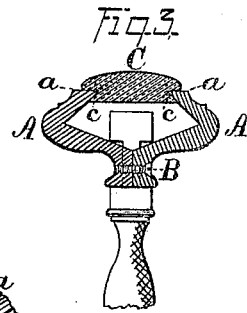
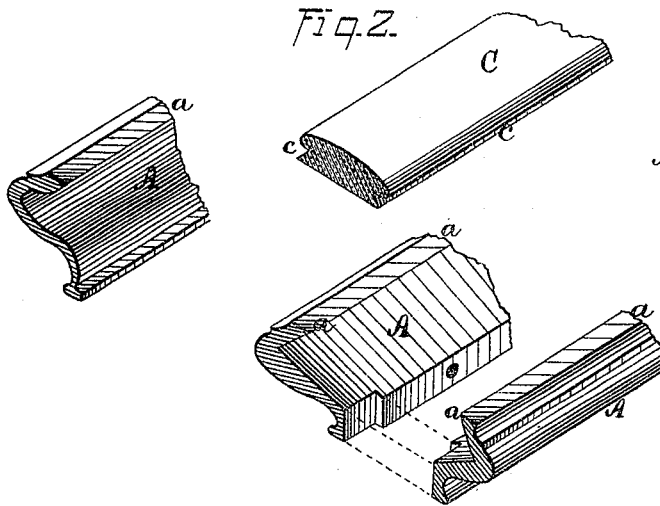
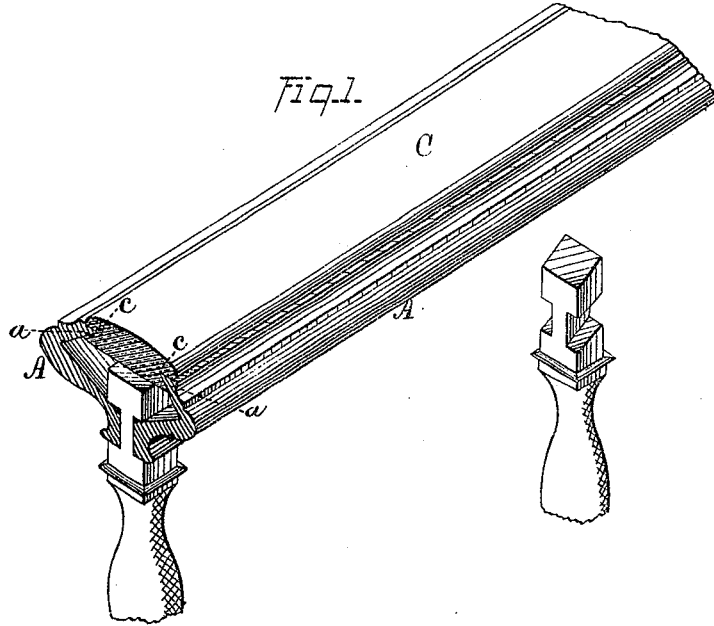


P. J. HARDY.  
Hand-Rail.

No. 163,996.

Patented June 1, 1875.



WITNESSES-

*Jas. E. Hutchinson  
 John R. Young*

INVENTOR-

*P. J. Hardy, by  
 Orindle and Co., his Attys*

# UNITED STATES PATENT OFFICE.

PIERRE J. HARDY, OF NEW YORK, N. Y.

## IMPROVEMENT IN HAND-RAILS.

Specification forming part of Letters Patent No. 163,996, dated June 1, 1875; application filed February 11, 1875.

*To all whom it may concern:*

Be it known that I, PIERRE J. HARDY, of New York city, in the county of New York and in the State of New York, have invented certain new and useful Improvements in Hand-Rails; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a perspective view of a hand-rail constructed by my improved method. Fig. 2 is a like view of the parts composing the same, separated from each other; and Fig. 3 is a cross-section of said rail.

Letters of like name and kind refer to like parts in each of the figures.

The design of my invention is to enable marble, slate, or other stone to be combined with metal, wood, or other like materials, in the formation of hand-rails; to which end it consists, as a new article of manufacture, of a hand-rail composed of wood or metal combined with stone, substantially as and for the purpose hereinafter specified.

In the annexed drawing, A and A represent the sections of my rail that are to be composed of wood or metal, which sections are constructed, preferably, in the form shown, and are secured together at their bases by means of screws B and B, that pass transversely through the same. Between the upper edges *a* and *a* of the sections A and A, which incline

upward and inward, is left a space that has any desired size transversely and receives the stone section C, which latter is provided with in its edges with grooves *c* and *c* that correspond to and receive said edges *a* and *a*. The distance between the edges *a* and *a* is slightly less than the distance between the bottoms of the grooves *c* and *c*, so that when the stone section C is in place and the screws B and B are driven home the sections A and A will firmly gripe said stone section, the spring of said sections A and A being sufficient to cause a constant elastic pressure to be maintained between said parts.

As thus constructed, the stone and wood on metal sections supplement each other, and together form a strong and durable rail, in which any desired shades or colors may be contrasted and the most beautiful effects produced.

Having thus fully set forth the nature and merits of my invention, what I claim is—

In combination with the metal sections A and A, constructed and united as shown, the stone or marble section C fitted between and embraced by the edges *a* and *a* of the former, substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 10th day of February, 1875.

PIERRE J. HARDY.

Witnesses:

GEO. S. PRINDLE,  
E. F. M. FAHITZ.