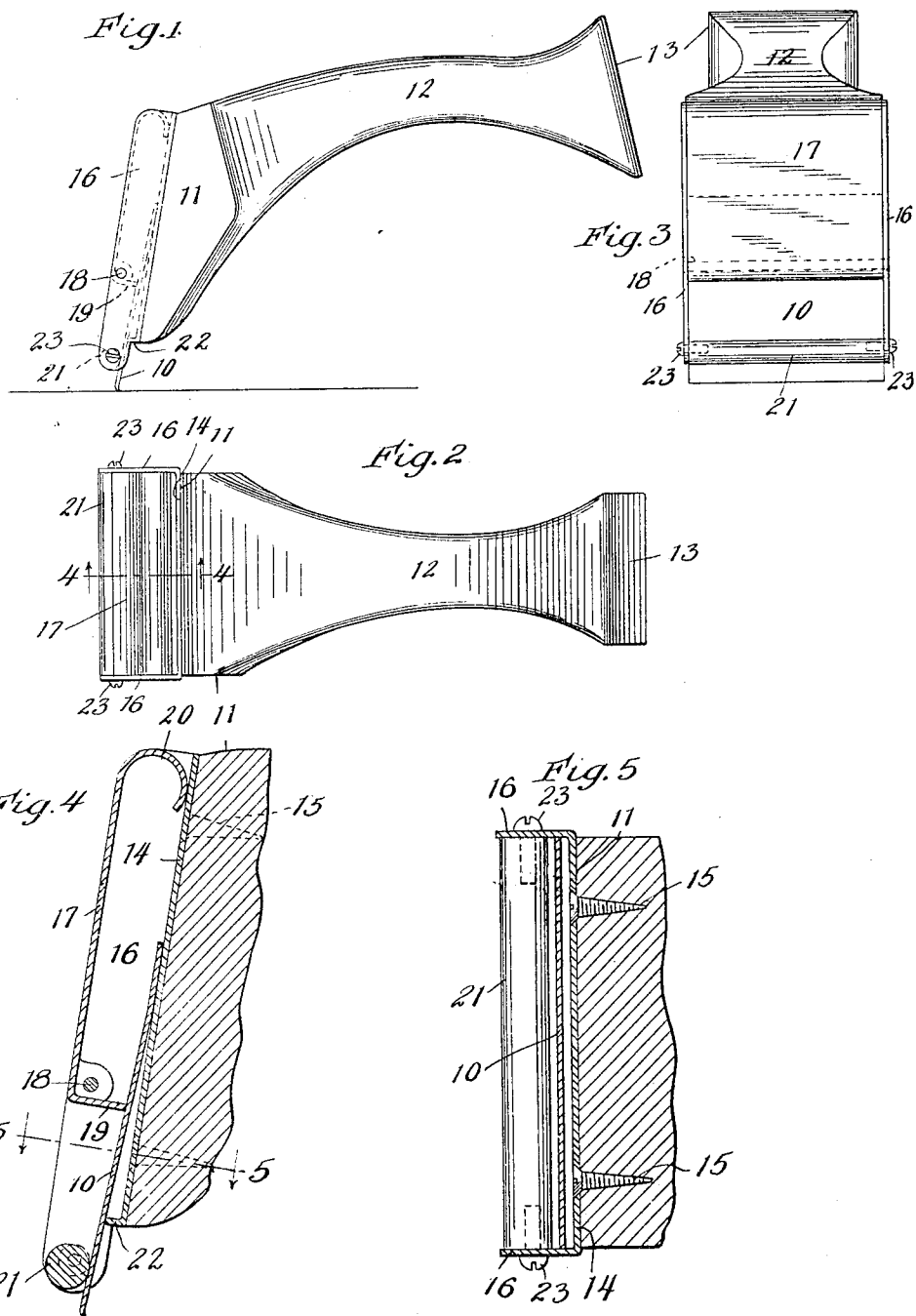


No. 819,126.

PATENTED MAY 1, 1906.

S. E. COLLINS.
FLOOR AND CABINET SCRAPER.

APPLICATION FILED MAY 13, 1905.



Witnesses:

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SAMUEL E. COLLINS, OF VALPARAISO, INDIANA.

FLOOR AND CABINET SCRAPER.

No. 819,126.

Specification of Letters Patent.

Patented May 1, 1906.

Application filed May 13, 1905. Serial No. 260,357.

To all whom it may concern:

Be it known that I, SAMUEL E. COLLINS, a citizen of the United States, residing in Valparaiso, in the county of Porter and State of Indiana, have invented a new and useful Improvement in Floor and Cabinet Scrapers, of which the following is a specification.

This invention is an improvement in scrapers for finishing floors and cabinet-work.

It relates principally to the construction of the scraping-blade and its clamping devices, and its nature is fully disclosed in the description given below and in the accompanying drawings, forming a part of this specification.

In said drawings, Figures 1, 2, and 3 are respectively a side elevation, a plan, and an end elevation of the invention. Fig. 4 is an enlarged section on the line 4 4 of Fig. 2, and Fig. 5 is an enlarged section on the line 5 5 of Fig. 4.

My improved scraper consists of a flat spring-blade 10 and a suitable holder therefor adapted to so clamp the blade as to support it near its acting edge and prevent it from chattering. The construction of the holder which I prefer is that disclosed in the drawings. The holder is mounted on a handle, desirably of wood, having a vertical portion 11, whose dimensions are commensurate with those of the blade-holder, and a handle proper, 12, which is angular in cross-section with rounded corners and an enlargement 13 at its rear end.

The blade-holder consists of a metal plate 14, covering the base 11 of the handle and secured thereto by screws 15. This plate has wings or bent-up portions 16 at its sides, and between these wings is a clamping-frame 17, pivoted to the wings at 18. The frame is formed of sheet metal, and its lower edge 19 is bent at right angles and bears on the scraper-blade, while its upper edge 20 is turned in semitubular form, as plainly shown, and supports the body of the frame, so as to bring it flush with the edges of the wings 16. The frame can of course be swung on its pivots 18 when it is desired to take out or insert the scraper-blade, and it only exerts pressure on the blade when in its closed position. (Seen at Fig. 4.) When the upper edge is thrown back, the edge 19 turns far enough to release the blade or give room for its entrance into the holder.

In order that the pressure on the blade by the clamping-frame may bend, and thus in-

sure the firm holding of the scraper-blade, I place an adjustable bar 21 across the blade upon its outside and bend up the lower edge of plate 14, as seen at 22, so as to support the blade upon the inside. With the four bearing-points thus provided for the blade it will be seen that when the clamping-frame is closed, as in Fig. 4, the main portion of the blade will be depressed between the raised edge 22 and the flat face of plate 14, while that portion of the blade below or outside of the raised edge 22, which would naturally be raised by the depressing of the central portion of the blade, will be held down by the bar 21. In this manner the acting edge of the blade is very firmly supported and prevented from chattering or yielding in any way to the resistance offered by the wood being operated upon.

The bar 21 is round and is eccentrically supported upon screws 23, entering its ends and passing through the wings 16, and its adjustments are effected by turning it upon the screws 23. Ordinarily no change in the adjustment of the bar will be necessary except to conform to changes in the thickness of the scraping-blades.

In the use of the device both hands may be employed, one grasping the handle 12 and the other bearing down on the holder. The form of handle shown has been used by me and others and has been found to be specially useful by reason of the facility it affords for convenient and easy manipulation of the device.

I claim—

1. The combination with a suitable handle, of a flat spring-metal scraper-blade and a holder for the blade, such holder having a releasable clamping-frame and an adjustable bar 21 on one side of the blade, and an opposing support 22 on the other side of the blade.

2. The combination with a suitable handle having wings 16, of a flat spring-metal scraper-blade and a holder for the blade, such holder embodying a clamping device pivoted to the wings and adapted to clamp the blade, a support under the blade between its point and the clamping device, and an adjustable device holding down the acting edge of the blade and preventing chattering.

3. The combination with a suitable handle, of a flat spring-metal scraper-blade and a holder for the blade, such holder embodying the pivoted clamping device adapted to bend the upper portion of the blade, a support un-

der the blade below said clamping device, and an adjustable bar below said support and upon the opposite side of the blade therefrom.

4. The combination with a suitable handle, of a flat spring-metal scraper-blade and a holder for the blade, such holder having two stationary supports on its under side, and an adjustable support and a clamping-frame on its upper side, the latter depressing the blade between said stationary supports.

5. The combination with a suitable handle, of a flat spring-metal scraper-blade and a

holder for the blade, such holder having two separated points supporting the blade upon one side, a downwardly-acting movable pressure-creating device acting upon the other side of the blade between said points, and a stationary support on the same side of the blade with the pressure device and acting on the point of the blade.

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Witnesses:

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