S. D. Van Pelt,

Hinge.

No. 105,743. Patented July 26, 1870.

fig:1.

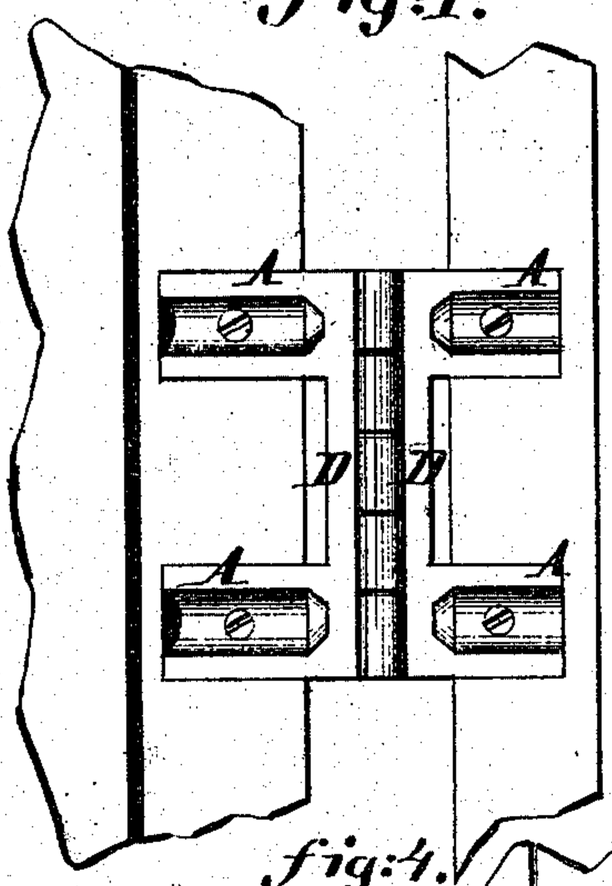

fig:2.

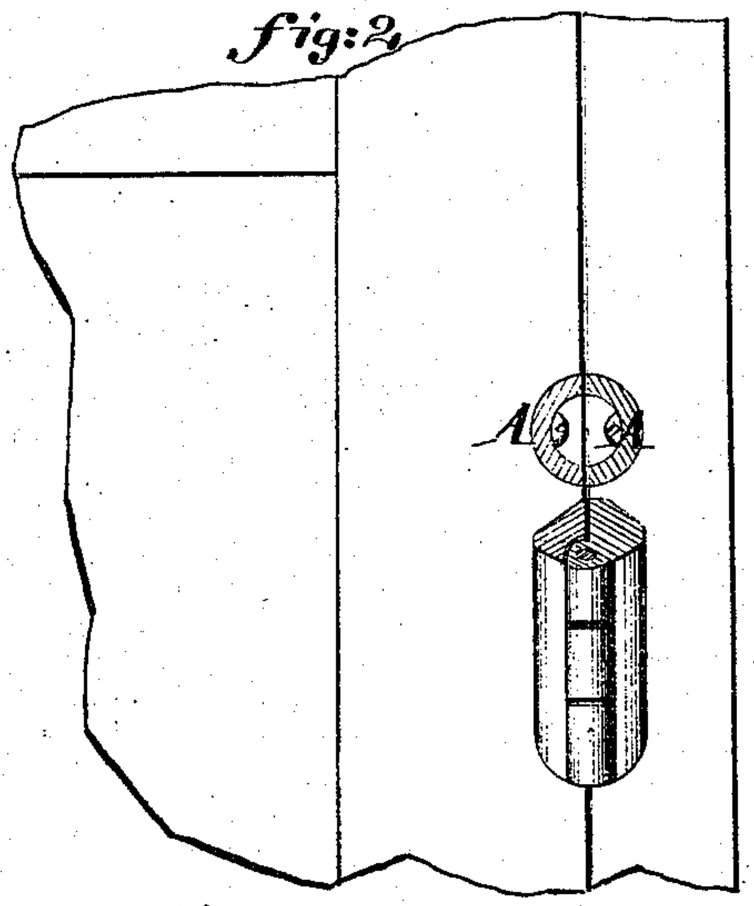

fig:4.

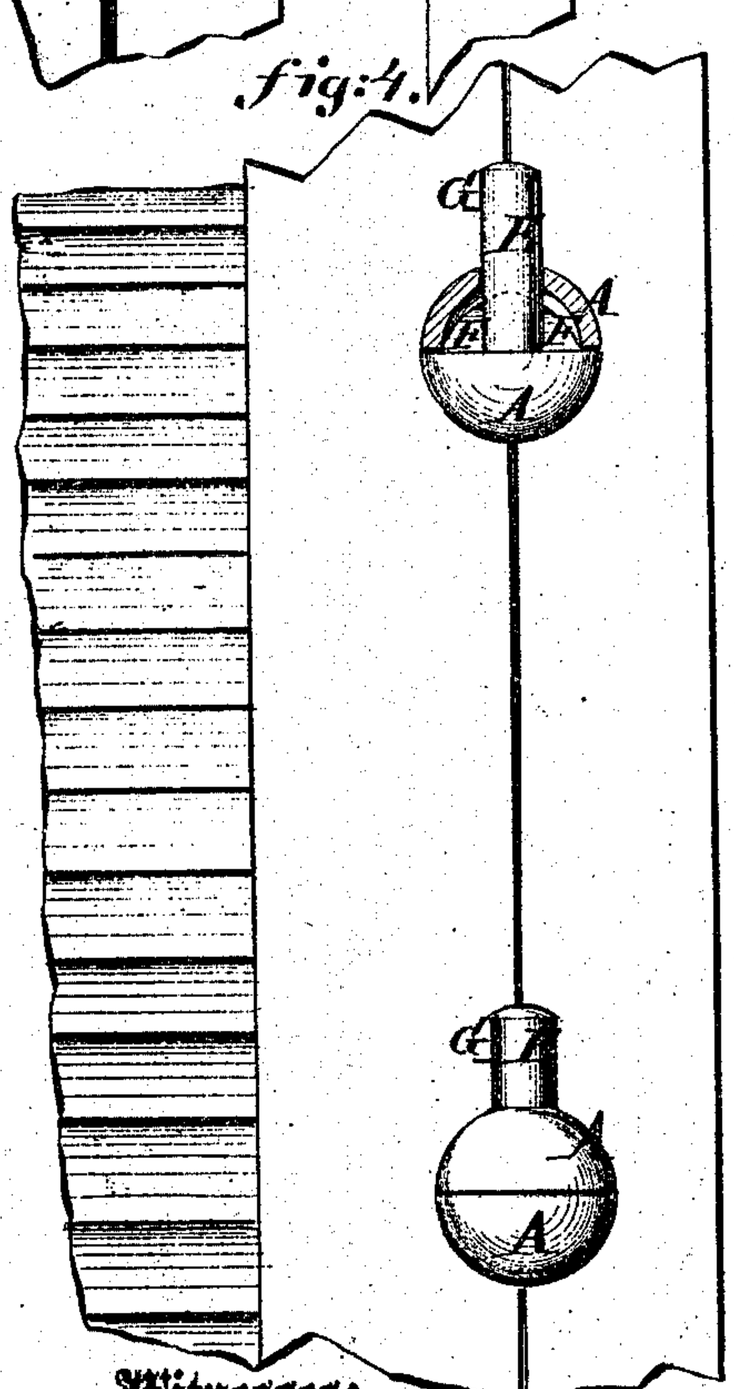

fig:3.

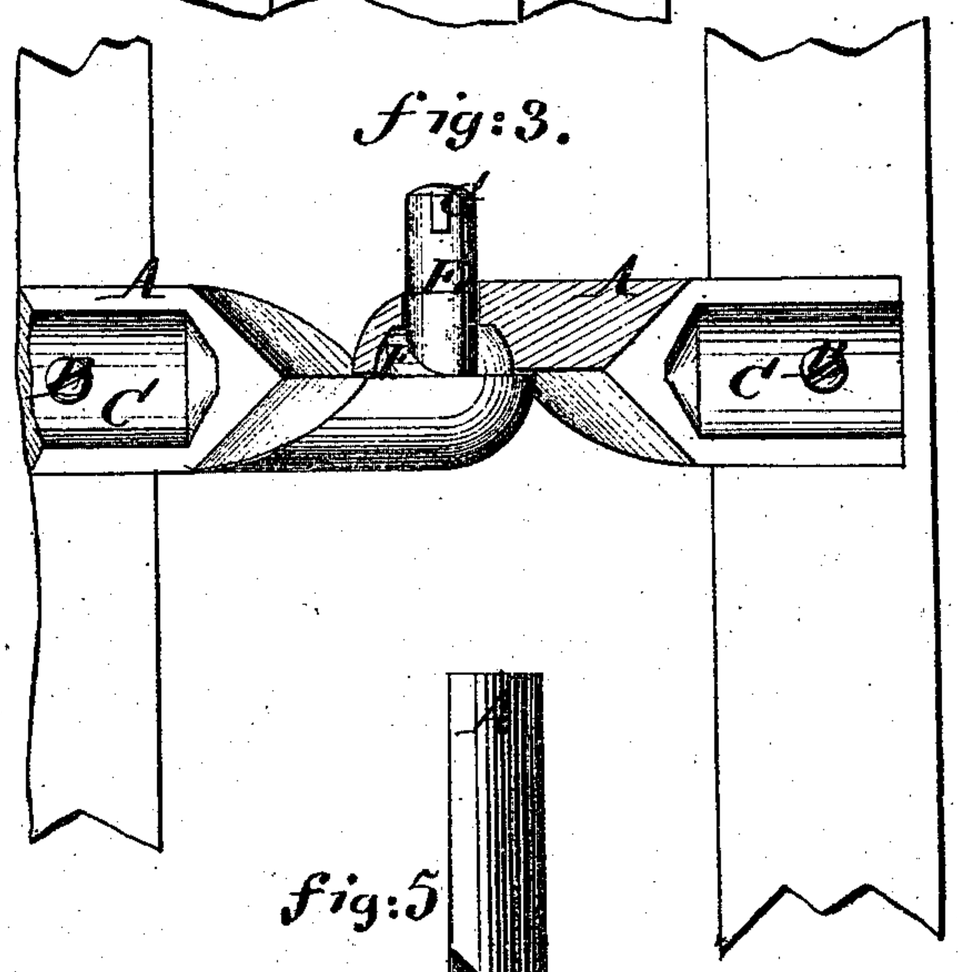

fig:5

Witnesses:

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SAMUEL D. VAN PELT, OF ANDERSON, INDIANA.

Letters Patent No. 105,743, *dated July* 26, 1870.

IMPROVEMENT IN HINGES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, SAMUEL D. VAN PELT, of Anderson, in the county of Madison and State of Indiana, have invented a new and useful Improvement in Hinges; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in blind and door-hinges, and consists in forming the leaves or parts which are attached to the doors or blinds and frames in semi-cylindrical form, so that they may be fitted by boring round holes between the doors or blinds and the frames, half in each, when the doors or blinds are fitted and wedged up to the frames.

Figure 1 is an elevation of an open door-hinge, constructed according to my improvement, and attached to a door and door-frame;

Figure 2 represents the same closed, and partly sectioned;

Figure 3 is an elevation of a blind-hinge in the open position;

Figure 4 is an elevation of a part of a blind in the closed position, with one hinge in elevation and the other sectioned; and

Figure 5 is a plan of one part of the blind-hinge.

Similar letters of reference indicate corresponding parts.

Instead of making the broad, flat leaves for attachment by fitting into recesses boxed into the frames and doors or blinds, as in the ordinary way, I propose to make them in semi-cylindrical form, as represented at A, so that the two parts, when closed together, will fit into a round hole, and I fit them by boring with a bit auger or other boring tool, placing the point of the bit on the line between the door or blind and the frame when the door or blinds are fitted, and wedged up snugly against the frame, so that each part will have a semicircular recess of the same size as the part of the hinge to be attached, which is secured by a screw, B, from the face, which may either be recessed, as at C, or not, as preferred.

For blinds and other light articles, the hinges made of a single divided cylinder, as in figs. 3 and 4, will be sufficiently strong; but for heavy doors, I propose to employ two or more, and connect them by bars D, and make the joints in the said bars and the outer ends of the cylinders as in the ordinary hinges, or as represented in figs. 1 and 2.

When the single cylindrical forms are used, they are divided vertically for about half the length, and horizontally the other half, the pintle E rising up from the horizontal face of the part attached to the frame, and the other half having a hole for it.

F represents cam-shaped studs rising up from the face of the part having the pintle, and alongside of it, which act in conjunction with corresponding notches in the face of the other part, to hold the blinds open or shut, the said notches and projections being arranged to let the blinds drop down when either opened or closed, but to cause it to rise in either opening or shutting. This prevents the blinds from being either opened or shut by light currents of air.

The pintle is provided with a stud, G, and the part having the hole is provided with a slot, which will admit the lug to pass through when adjusted to the right position, after which the blind cannot be taken off until the slot and lug are brought to coincide again. This prevents the blinds from being blown off the hinges.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

Door or blind-hinges constructed in the parts to be fitted to the doors, blinds, or frames, in semi-cylindrical form, for attachment in semicircular recesses formed by boring between the doors or blinds and the frames, when the doors or blinds are fitted and wedged up to the frames, all substantially as specified.

SAMUEL D. VAN PELT.

Witnesses:

THOS. W. STILWELL,
GEO. W. KLINE,
JOS. H. SHARP.