

H. ZOLLINGER.

BLACKBOARD.

No. 175,635.

Patented April 4, 1876.

Fig. 1.

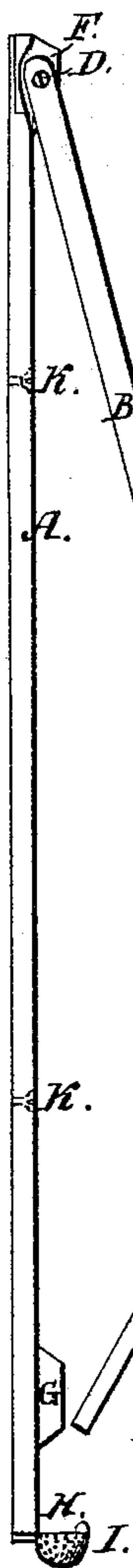


Fig. 2.

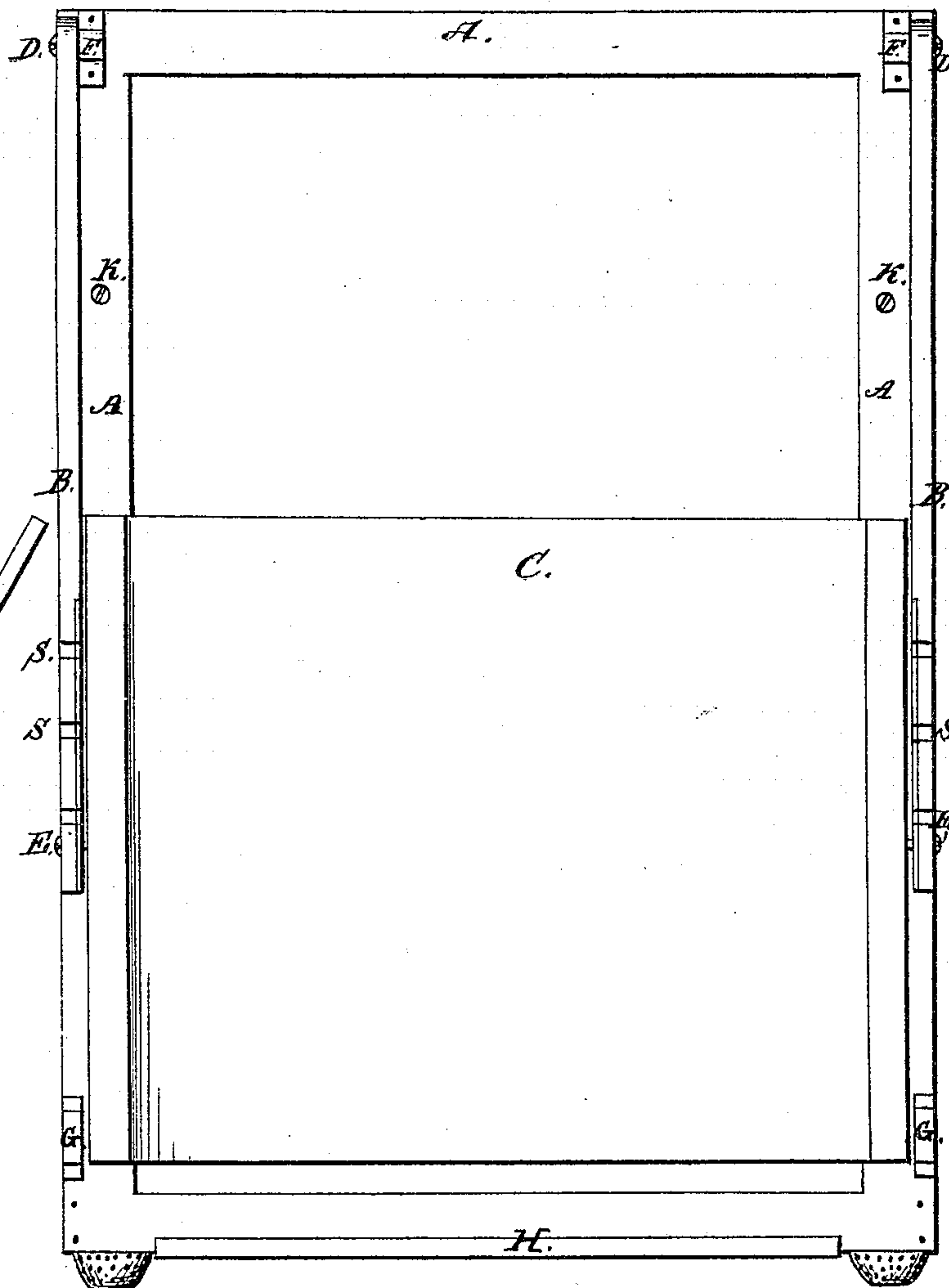
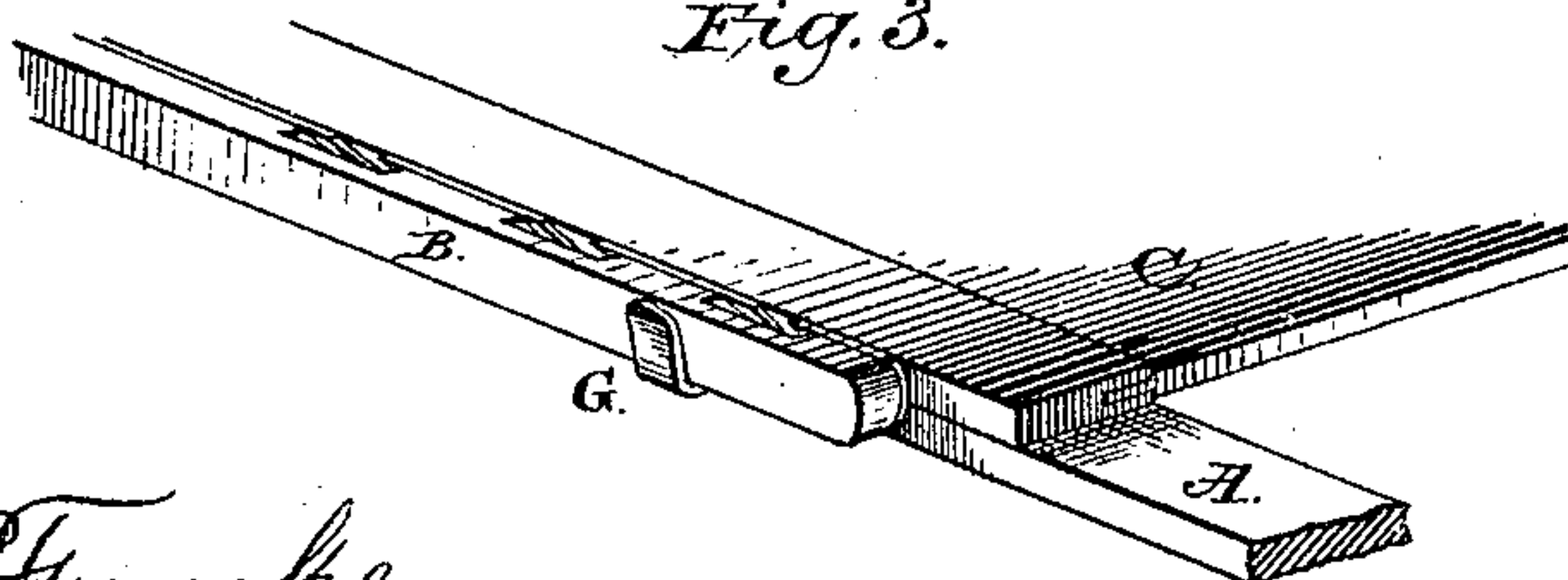


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

HENRY ZOLLINGER, OF HYDE PARK, MASSACHUSETTS.

IMPROVEMENT IN BLACKBOARDS.

Specification forming part of Letters Patent No. **175,635**, dated April 4, 1876; application filed October 20, 1875.

To all whom it may concern:

Be it known that I, HENRY ZOLLINGER, of Hyde Park, in the county of Norfolk and State of Massachusetts, have invented a new and useful Improvement in Hanging and Turning Blackboards for School and other purposes, which invention is fully set forth in the following specification, reference being had to the accompanying drawings.

The object of my invention is to fasten the frame of a blackboard for school and other purposes against a wall, and to turn the blackboard while the frame is so fastened.

This is accomplished by two swinging arms as long as two-thirds of the height of the frame, and as broad as the thickness of the blackboard and the frame, so as to fit closely on either side of blackboard and frame, which are fastened to this frame and the blackboard by screws.

The blackboard is shown in a side view in Figure 1, representing the same when it is turned round a quarter of a whole turn in the frame, at an angle of forty degrees, (40° .) The frame is marked A, the swinging arms B, the blackboard C, the screws fastening the arms to the frame D, and those fastening the blackboard to the arms E. In order to turn it, the blackboard is seized at the upper or lower end, and drawn toward the person. By doing so the arms are pulled away from the frame, and the blackboard may be turned over. At the lower end of the swinging arms, on the side nearest the blackboard, brass strips are inserted in the arms, in which three or four

slots, marked S, are cut, opening upward at an angle of about sixty degrees (60°) against the edge of the swinging arms. The screws E E are hung in the lower or higher slots, in order to lower or to raise the blackboard. At the top of the frame two blocks, F F, are screwed on, in which the arms are fastened by screws. Toward the lower end of the frame two other blocks, G G, are nailed on for the purpose of keeping the blackboard in position when matter is to be erased. At the lower edge of the frame a shelf, H, is fastened to hold the chalk, and on each side a metal basket, I I, to hold the sponge.

Fig. 2 shows the blackboard and frame in plan view, K K designating two of the four screws by which the frame is fastened to the wall.

Fig. 3 is a modification, showing the stop arranged outside of the arms B, and the screws sunk to take into the plate only.

I claim as my invention—

1. The frame A A, pivoted arms B B, having slots S, and the blackboard C, combined to operate substantially as set forth.

2. The frame A A, provided with pivoted arms B B, having slots S, blocks G G, acting as stops, shelf H, and wiper-basket I I, combined and arranged together substantially as and for the purpose described.

HENRY ZOLLINGER.

Witnesses:

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