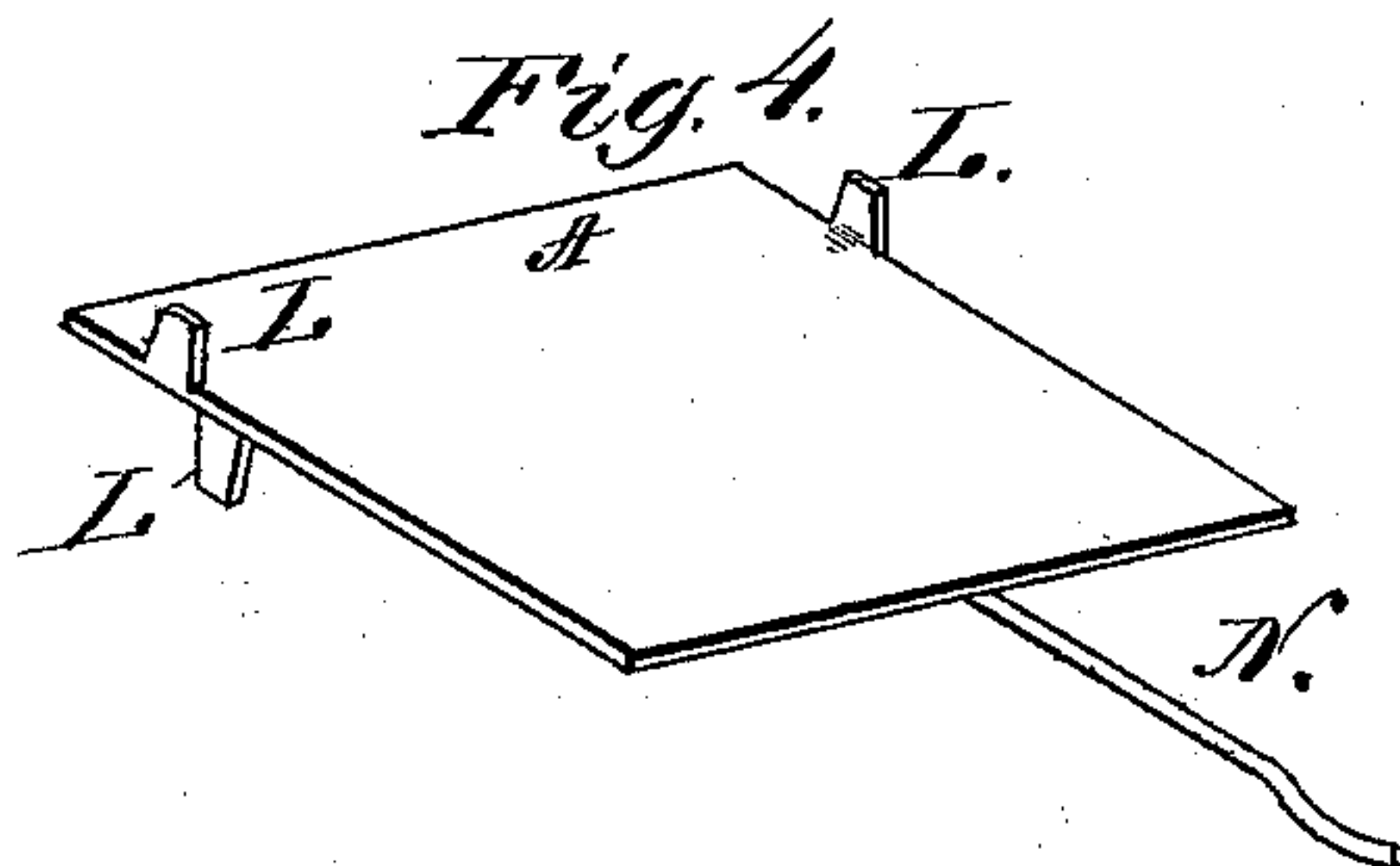
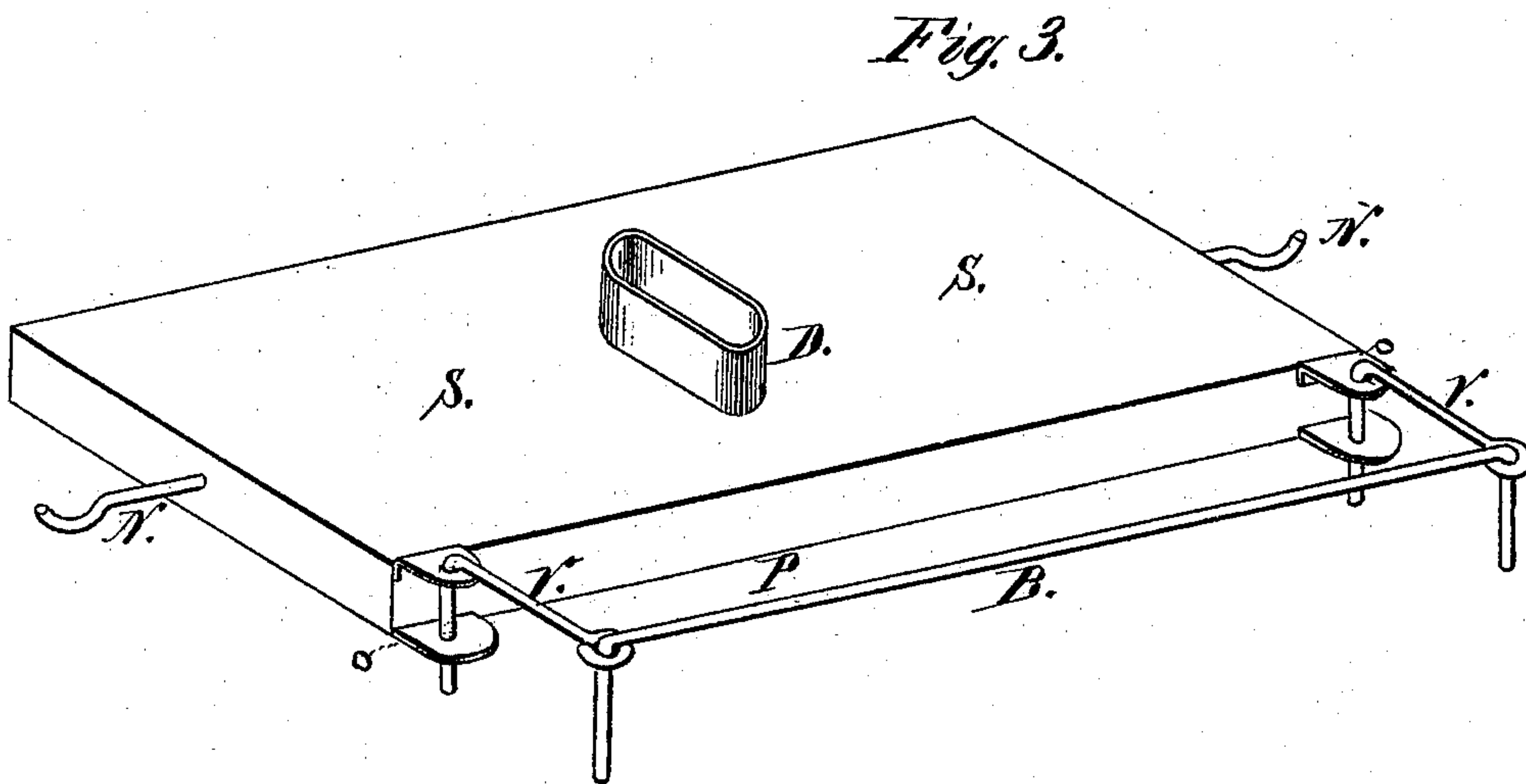
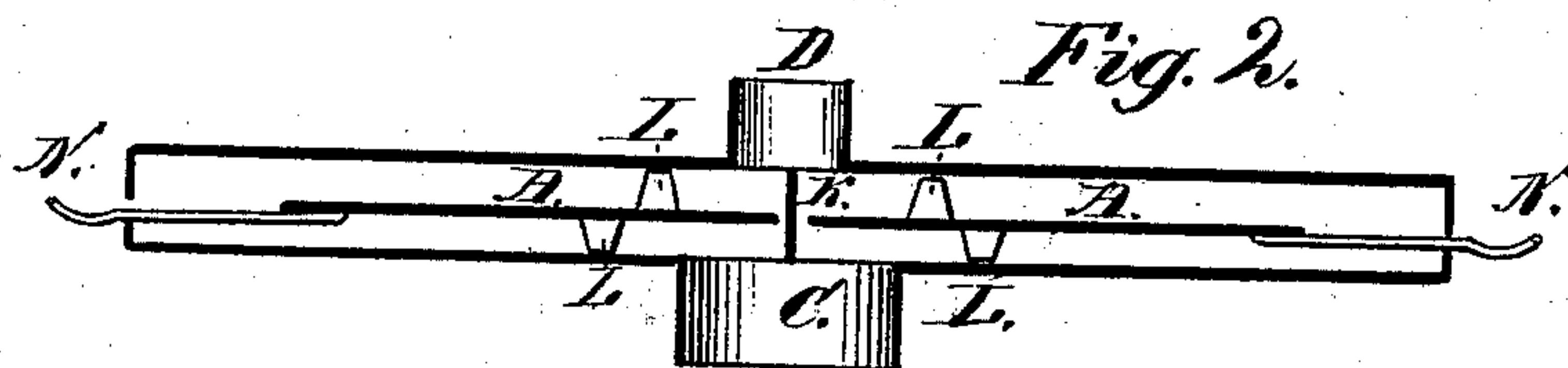
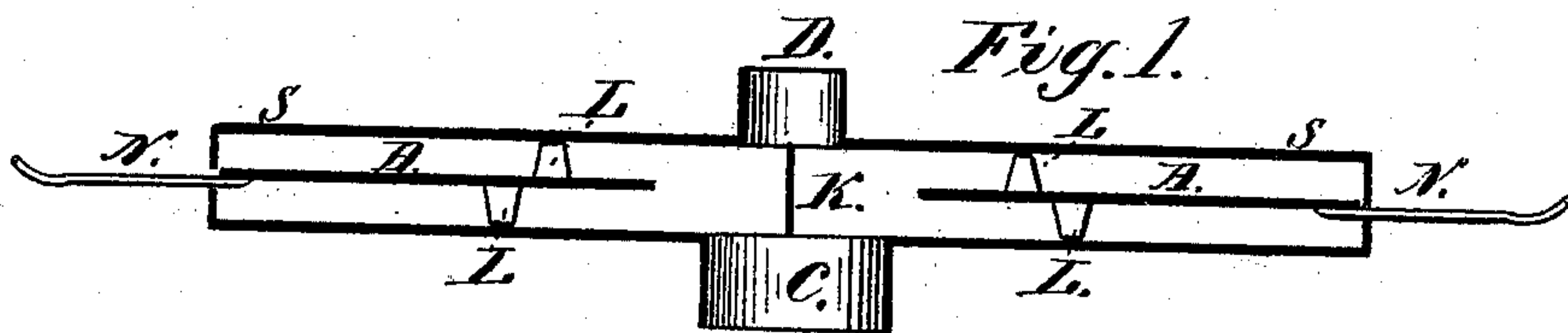


J. H. MEARS.
Stove-Pipe Shelf Heaters.

No. 151,237.

Patented May 26, 1874.



Witnesses:

W. R. Kennedy,
A. A. Austin

Inventor:

J. H. Mears.

UNITED STATES PATENT OFFICE.

JOHN H. MEARS, OF OSHKOSH, WISCONSIN.

IMPROVEMENT IN STOVE-PIPE SHELF-HEATERS.

Specification forming part of Letters Patent No. 151,237, dated May 26, 1874; application filed February 11, 1874.

To all whom it may concern:

Be it known that I, JOHN H. MEARS, of Oshkosh, in the county of Winnebago and State of Wisconsin, have invented a new and Improved Stove-Pipe Shelf-Heater; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing making a part of this specification.

My invention consists of a stove-pipe shelf-heater, and is constructed of cast or wrought iron, or any other suitable material, and so arranged that the heat which usually escapes to a great extent through an ordinary stove-pipe is further utilized by passing through a shelf and heater governed by means of certain sliding dampers, as hereinafter more fully described.

Figure 1 is a vertical section with dampers A A drawn open. Fig. 2 is a vertical section with dampers A A closed. Fig. 3 is a perspective view of my invention with towel-rack B attached by ears O O. Fig. 4 is a perspective view of one of the dampers, showing projections L L and handles N N.

My shelf and heater are intended, when in use, to connect with an ordinary stove-pipe by the thimbles or projections C and D, such connections usually being made between the first and second sections of a stove-pipe, when such pipe is connected to an ordinary cooking-stove. It will be seen that when the sliding dampers A A are closed, as shown in Fig. 2, they come in contact with the partition K, thereby changing the direct vertical course

of the heat, and causing the heat to divide and flow in opposite directions, and pass along and under the surface of the dampers A A to their outer extremities, and then return along the under surface of the tops or shelf-plate S, and unite again in passing through thimble or projection D, which thimble is flattened to give less draft in the shelf-plate S S, and by that means keeping warm any dishes or substance placed thereon, and also assisting in warming the room by its increased radiating surface, thereby economizing in fuel. The handles N N of the dampers A A are hooked at their extremities for the purpose of suspending, when not in use, dippers or other utensil used about an ordinary cooking-stove. For the purpose of simplifying the construction of the dampers A A, and of retaining them in their proper position in the heater, they are provided with the projections L L.

I am aware that it is not new to provide a direct and indirect draft in heating-drums, as that has been done heretofore. I therefore do not claim this; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

The dampers A A, provided with the projections L L and crooked handles N N, in combination with a stove-pipe shelf, S, as shown and specified.

JOHN H. MEARS.

Witnesses:

W. R. KENNEDY,
A. A. AUSTIN.