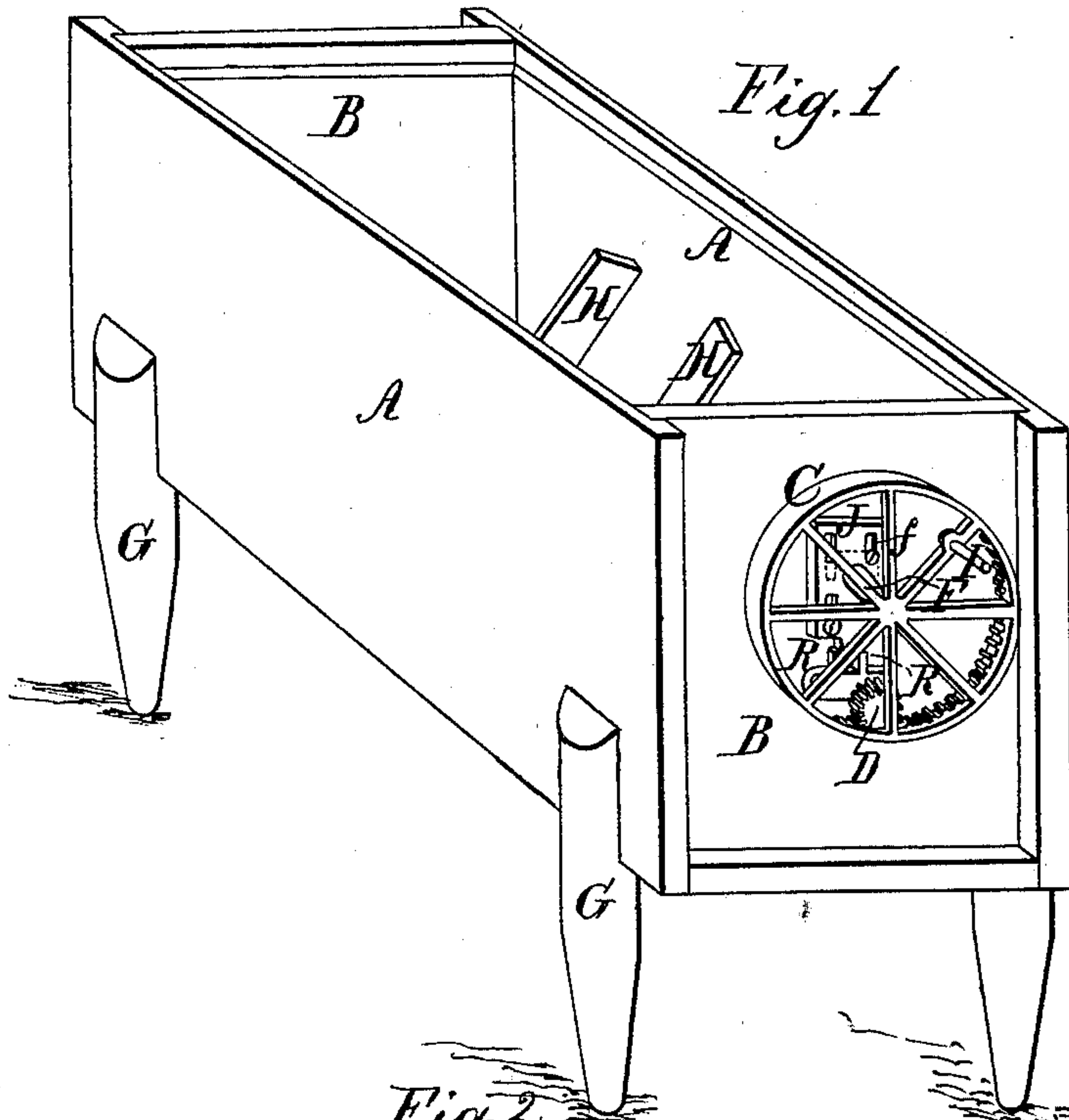


*A. Lloyd,*

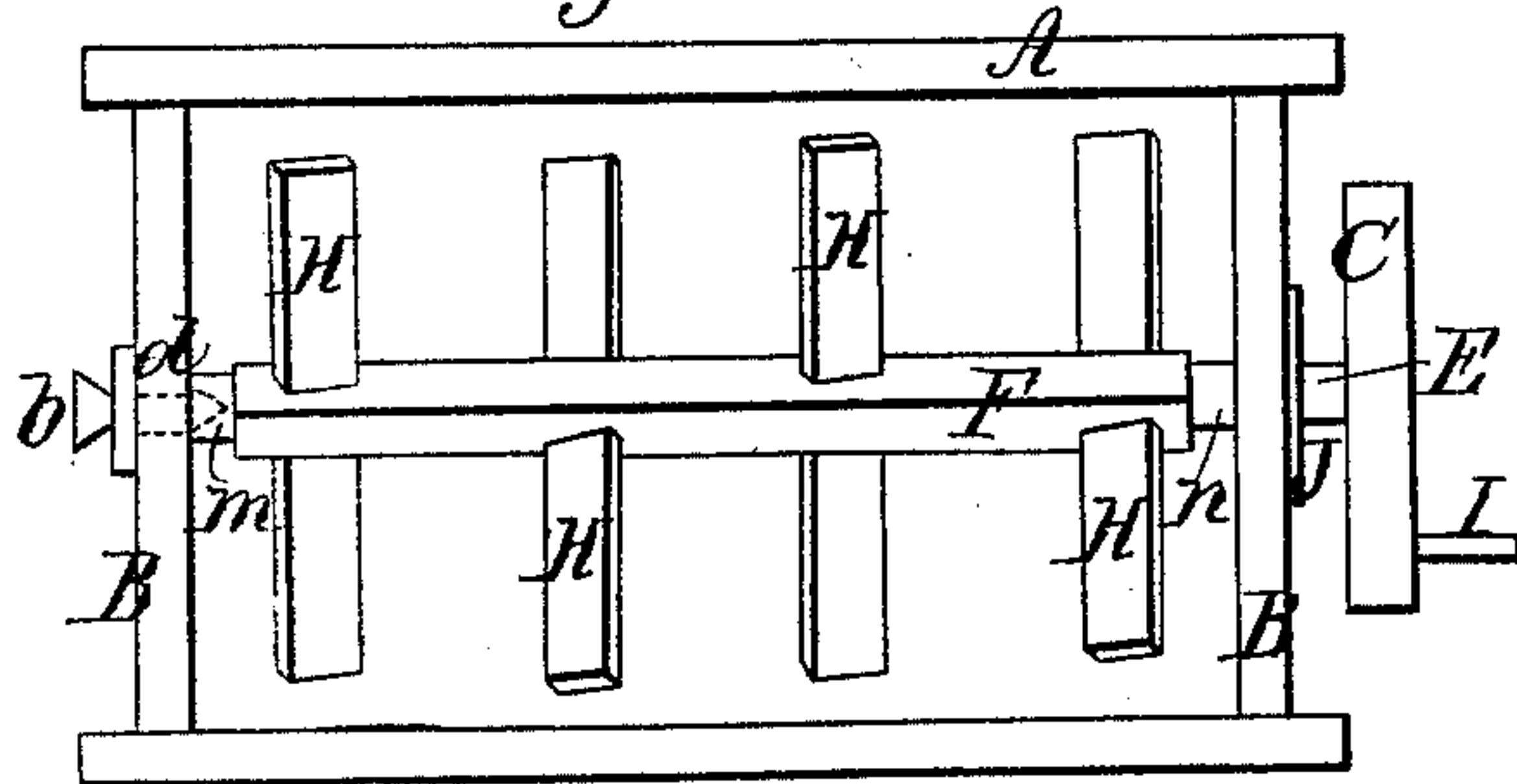
*Churn.*

*No. 94,619.*

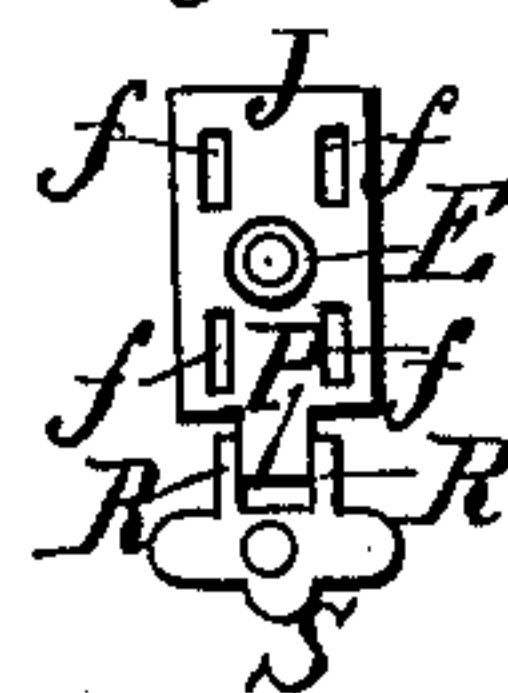
*Patented Sep. 7. 1869.*



*Fig. 2*



*Fig. 3*



*Witnesses:*  
*G. L. Gibson*  
*for Norquut*

*Inventor:*  
*A. Lloyd.*  
*By his Attorney*  
*G. B. Chapin*

# United States Patent Office.

A. LLOYD, OF MILLERSBURG, ILLINOIS.

Letters Patent No. 94,619, dated September 7, 1869.

## IMPROVEMENT IN CHURNS.

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, A. LLOYD, of Millersburg, in the county of Mercer, and State of Illinois, have invented an Improved Churn; and I do hereby declare that the following is a full and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, and letters marked thereon, making a part of this specification, in which—

Figure 1 is a perspective representation of my improved churn, with the cover removed.

Figure 2, a plan view of the same.

Figure 3, an elevation of the adjustable plates which support the gearing, detached from the box.

The nature of the present invention consists in the novel construction and combination of the plates which support the gearing, they being arranged to interlock each other, and also to move apart far enough to admit of different sized pinions being used with the same drive-wheel, accordingly as the size of any churn may require.

A B represent an ordinary churn-box, mounted upon legs, G, in the usual manner, and used to hold the cream or milk to be churned.

J represents a plate, which supports the shaft E of a drive-wheel, C, and which is provided with slots, *f*, to receive the screws which hold the plate to the end B of the box, and to admit of the plate being moved to or from the plate S.

The lower end of the plate J has a tongue, P, fig. 3, which fits into a groove formed between the lugs R of the plate S, consequently each plate is very materially supported by the other, and requires fewer screws to hold it in place.

The plate S supports the shaft of a pinion, D, which drives the dasher-shaft F, the pinion being driven by the internal drive-wheel C.

The inner end *n*, of the shaft of the pinion D, has a socket formed in it to receive the end of the shaft F, the other end of the shaft being held by a thumb-screw, *b*, fig. 2, passing through a plate, *d*, fastened to the end B of the box, and into a depression formed in a ferrule, *m*, driven on to the end of said shaft.

In the manufacture of these churns, I intend to make two or more sizes, with gearing to give the required motion to the dasher F H. In this case either different sized pinions D or drive-wheels C are required, but as the drive-wheel costs about five times as much as a pinion, I have made the plate J adjustable, whereby the wheel C can be so lowered down as to operate a much larger pinion, D. Hence, properly to gear a larger churn, it is only required to use a proportionally larger pinion.

Another advantage is gained in this construction, consisting in the ease with which the gearing can be set together when the cogs become worn.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent of the United States, is—

The adjustable plate J, interlocking the plate S, in combination with pinion D, drive-wheel C, box A B, and dasher F H, the latter being held in the box by means of the thumb-screw *b*, as and for the purpose set forth.

A. LLOYD.

Witnesses:

J. WM. TOWSON,  
J. M. BRISON.