

W. H. McCormick,

Cart Scale.

No. 113543.

Patented Apr. 11, 1871.

Fig. 1

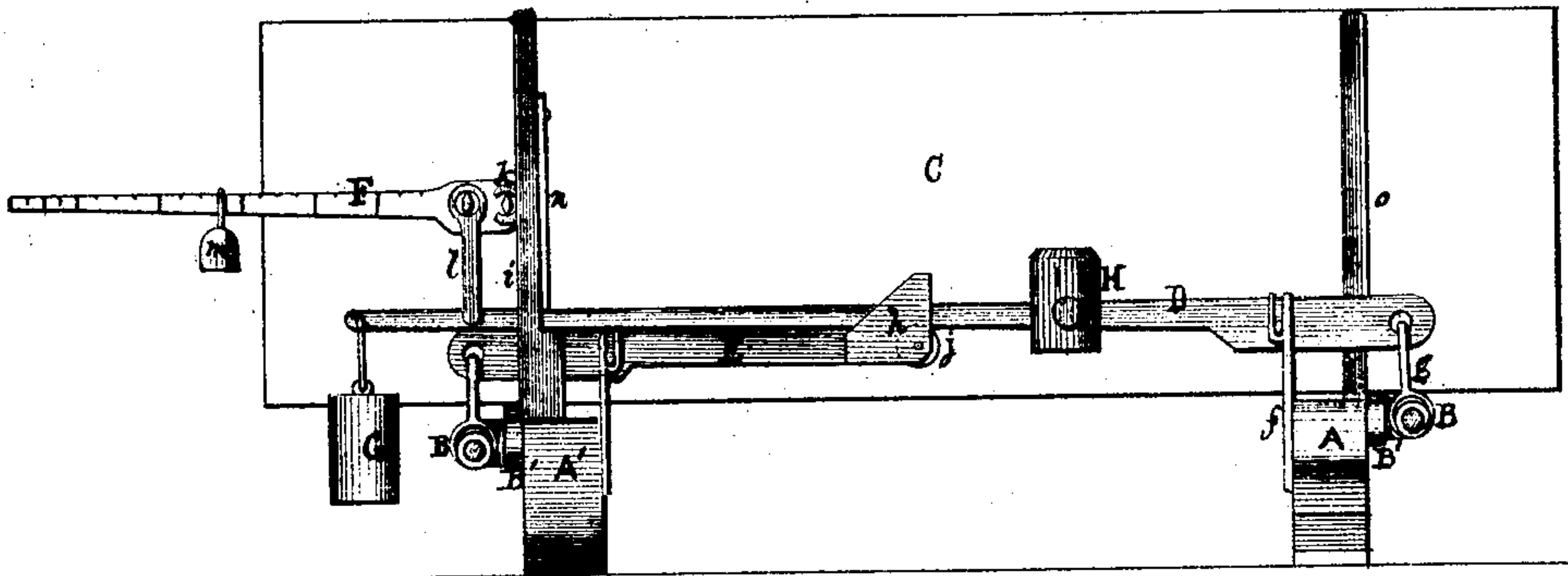


Fig. 2

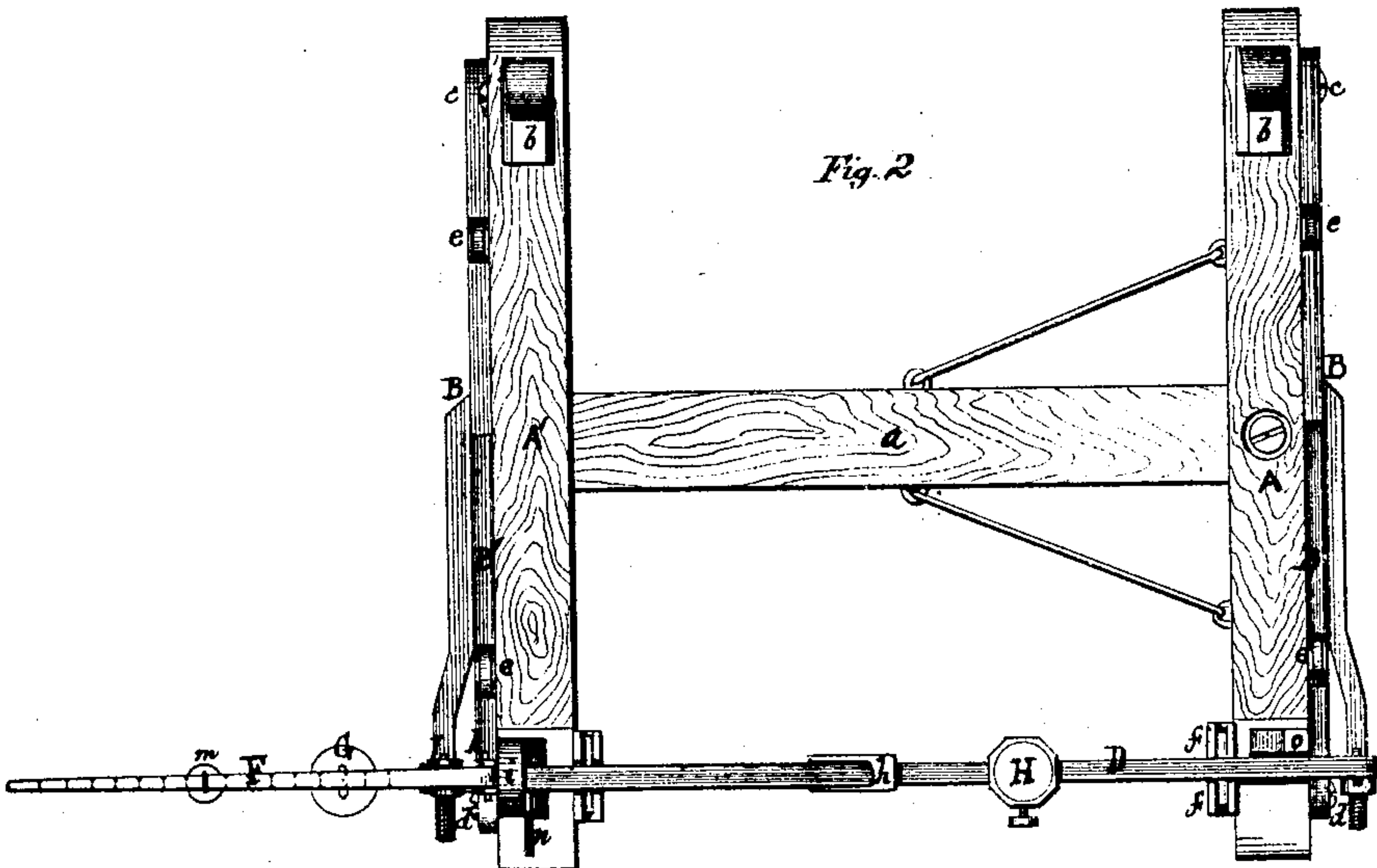
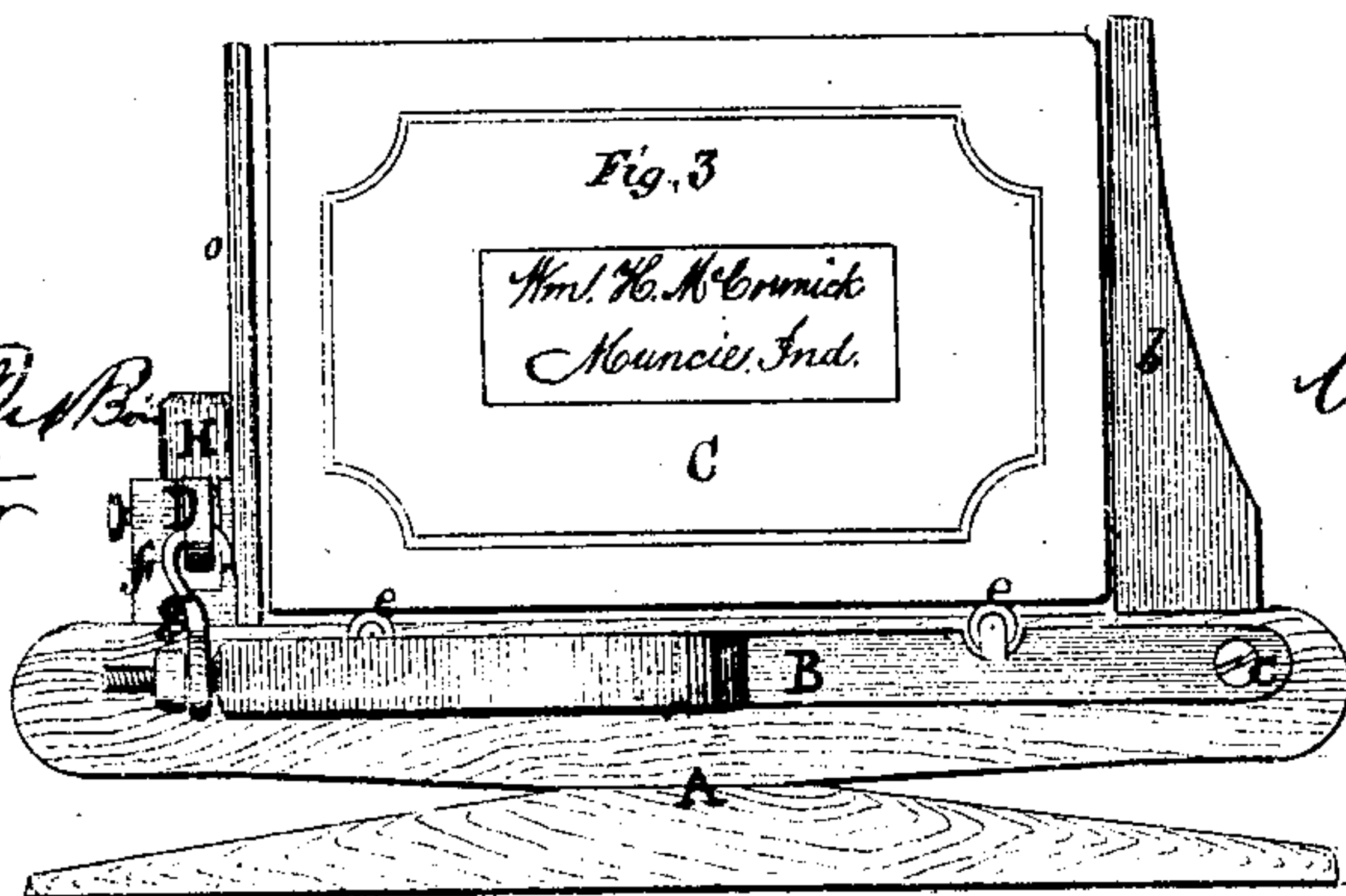


Fig. 3



Witnesses:

Chas. L. Dubois  
J. H. Foster

Inventor:

Wm. H. McCormick  
by Geo. W. Rothwell  
att'y

# United States Patent Office.

WILLIAM H. McCORMICK, OF MUNCIE, INDIANA, ASSIGNOR TO HIMSELF  
AND JOHN T. WILLIAMS, OF SAME PLACE.

Letters Patent No. 113,543, dated April 11, 1871.

## IMPROVEMENT IN WEIGHING ATTACHMENTS TO WAGONS.

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, WILLIAM H. McCORMICK, of Muncie, in the county of Delaware and State of Indiana, have invented a new and useful Improvement in Weighing-Scales applied to Wagons; and do hereby declare that the following description, taken in connection with the accompanying drawing, forms a full and exact specification thereof.

Figure 1 is a side elevation;

Figure 2, a top view with the wagon-body removed; and

Figure 3, an end view.

This apparatus is composed essentially of transverse interlocking weighing-levers, arranged alongside the bolsters so as to be protected thereby, in combination with weighing-levers, connections, and weights.

The invention consists in the construction, arrangement, and combination of parts, as hereinafter described and claimed.

Similar letters of reference indicate like parts in the several figures.

Referring to the drawing—

A A represent the front and rear bolsters, respectively, of a cart or wagon connected together by a reach, *a*.

The bolsters are each provided with an ordinary standard, *b*, at one side, while the standards at the opposite side are of different construction, as will be described.

To each bolster are pivoted two levers B B'.

The long lever B is pivoted at *c*, and interlocks at its center with the end of the short lever B', which has its fulcrum at *d*.

To each lever B B' is applied a roller, *e*, hung between lugs cast with the lever. The wagon or cart-body rests on these rollers.

D, E, and F represent the scale-levers. The former, D, has its bearings in short standards, *f*, attached to the bolster A, and its short arm is connected by means of a link, *g*, or equivalent device, with the lever B.

The lever D passes loosely through a cap, *h*, attached to the inner end of lever E, and extends through the slotted standard *i*, secured to the rear bolster.

G is the counterpoise depending from the end of lever D, and

H is a movable weight fitted on said lever, and provided with a set-screw for balancing the scales with the body or box thereon.

The lever E also passes through the slot in standard *i* and has its bearings in short uprights affixed to the rear bolster. This lever, like the lever D, is connected to the lever B of the rear bolster.

*j* is an anti-friction roller in the cap at the end of lever E.

The lever F is hung in bearings, *k*, on the standard *i*, and carries a pendent clevis, *l*, which rests astride the lever D, and engages with a notch in the upper surface thereof. This lever is notched on its upper surface throughout its length, as usual, for the balance *m*, and is graduated in any suitable manner.

*n* represents a stop, pivoted to the standard *i*, for holding the scale-levers in position.

The standard *o* on the front bolster may be of wood or metal.

Instead of having the levers B B' to interlock, as shown, they may be connected together at this point by a link and pin or other suitable anti-friction device.

The operation will be readily understood without further description.

These scales can be easily adapted for use as ground or platform scales.

Having thus described my invention—

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

The transverse interlocking levers B B', arranged alongside the bolsters so as to be protected thereby from disarrangement, and provided with anti-friction rollers *e*, hung between lugs, in combination with the levers D, E, and F, cap *h*, and anti-friction roller *j*, all constructed, arranged, and operated as set forth.

To the above specification of my invention I have signed my name this 16th day of June, 1870, in the presence of the two subscribing witnesses.

Witnesses: WM. H. McCORMICK.  
S. R. SUTTON,  
C. W. MOORE.