

A. Joyner
Washing Machine.

N^o 56,950.

Patented Aug. 7, 1866

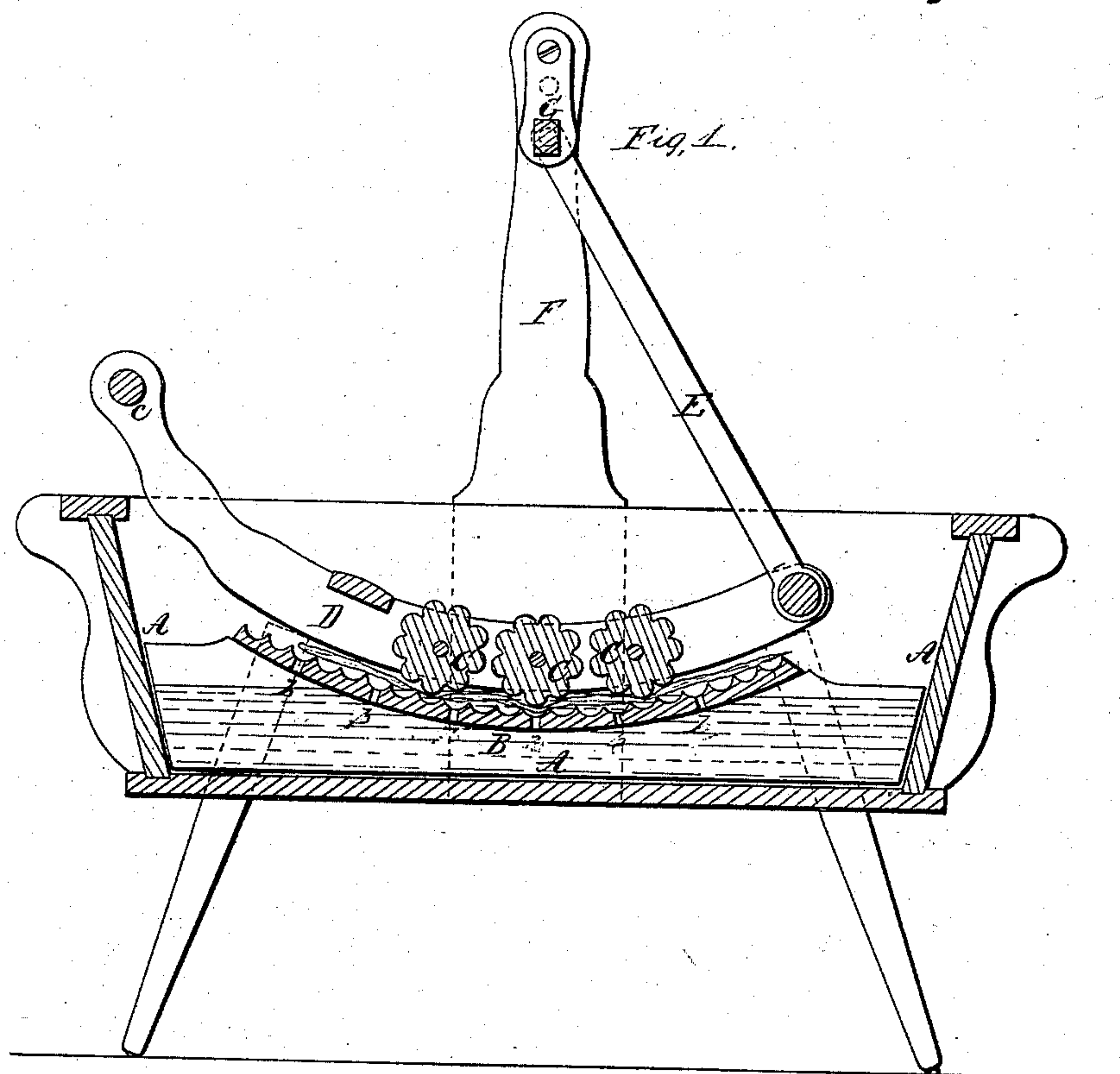
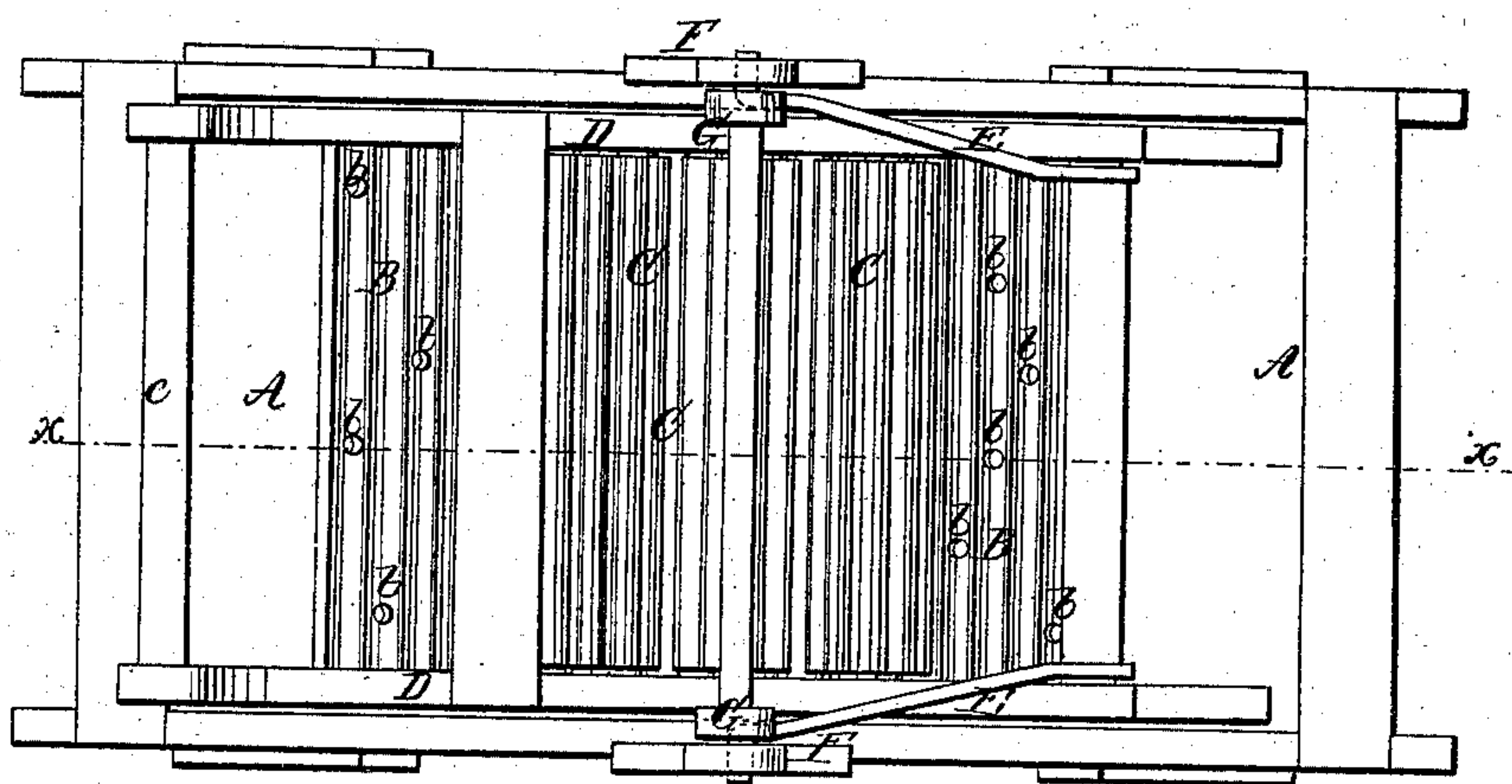


Fig. 1.



Witnesses;

J. W. Livingston
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UNITED STATES PATENT OFFICE.

ALBERT JOYNER, OF ELTON, WISCONSIN.

IMPROVED WASHING-MACHINE.

Specification forming part of Letters Patent No. 56,950, dated August 7, 1866.

To all whom it may concern:

Be it known that I, ALBERT JOYNER, of Elton, in the county of Walworth and State of Wisconsin, have invented a new and Improved Washing-Machine; 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 drawings, forming a part of this specification, in which—

Figure 1 is a longitudinal vertical section of my invention, taken on the plane of the line *x x*, Fig. 2. Fig. 2 is a plan or top view of my invention.

Similar letters of reference indicate like parts.

My invention consists in a removable fluted or grooved concave, having perforations through it for permitting the water to rise up underneath the clothes which are being washed.

It also consists in a peculiar manner of connecting the roller-carriage to the uprights.

To enable others to understand my invention, I will proceed to describe it.

A designates the box of the machine, and this may be of any suitable shape. Into this box is placed the rubbing-concave designated by the letter B, and it is so placed therein as to be removable at pleasure. The wash-board is fluted or grooved in a direction transversely with the machine, and through it there are made a number of perforations *b*.

By placing just water enough in the box to cover the concave at its center and lowest part, the garment can be wholly or partly submerged in the water, the perforations toward each end of the rubbing-concave permitting the water,

after passing through the garments, to leave the board, and thus fresh water may be always kept upon the garment.

C C C designate three fluted rollers, which are mounted in an arc-shaped carriage, D, and placed on a line corresponding with the concavity of the rubbing-surface. This carriage D is pivoted at one end to arms E, which are journaled in uprights F, secured to the sides of the box A, and at the other there is a bar, *c*, or the like, which may be taken hold of for operating the washing-machine.

The journals of the arms E are held in bearings in the uprights by swinging plates G, which press against the ends of the arms, and thus keep the journals into their boxes or bearings. Therefore, when it is desired to remove the fluted rollers and their carriage, it is necessary to throw up the plate G, when the arms can be drawn toward each other and the whole lifted from the machine.

For bearings for the arms of the carriage, a number of holes are made in the uprights B, so that the distance of the rollers from the rubbing-concave can be regulated according to the bulk of the clothes being washed.

This machine is simple and efficient, and all its parts can be readily removed from the box A whenever desired.

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

The manner, substantially as shown, of keeping the journals on which the rubbing-concave is suspended in their bearings.

ALBERT JOYNER.

Witnesses:

NEWTON MCGRAW,
HENRY FEETER.