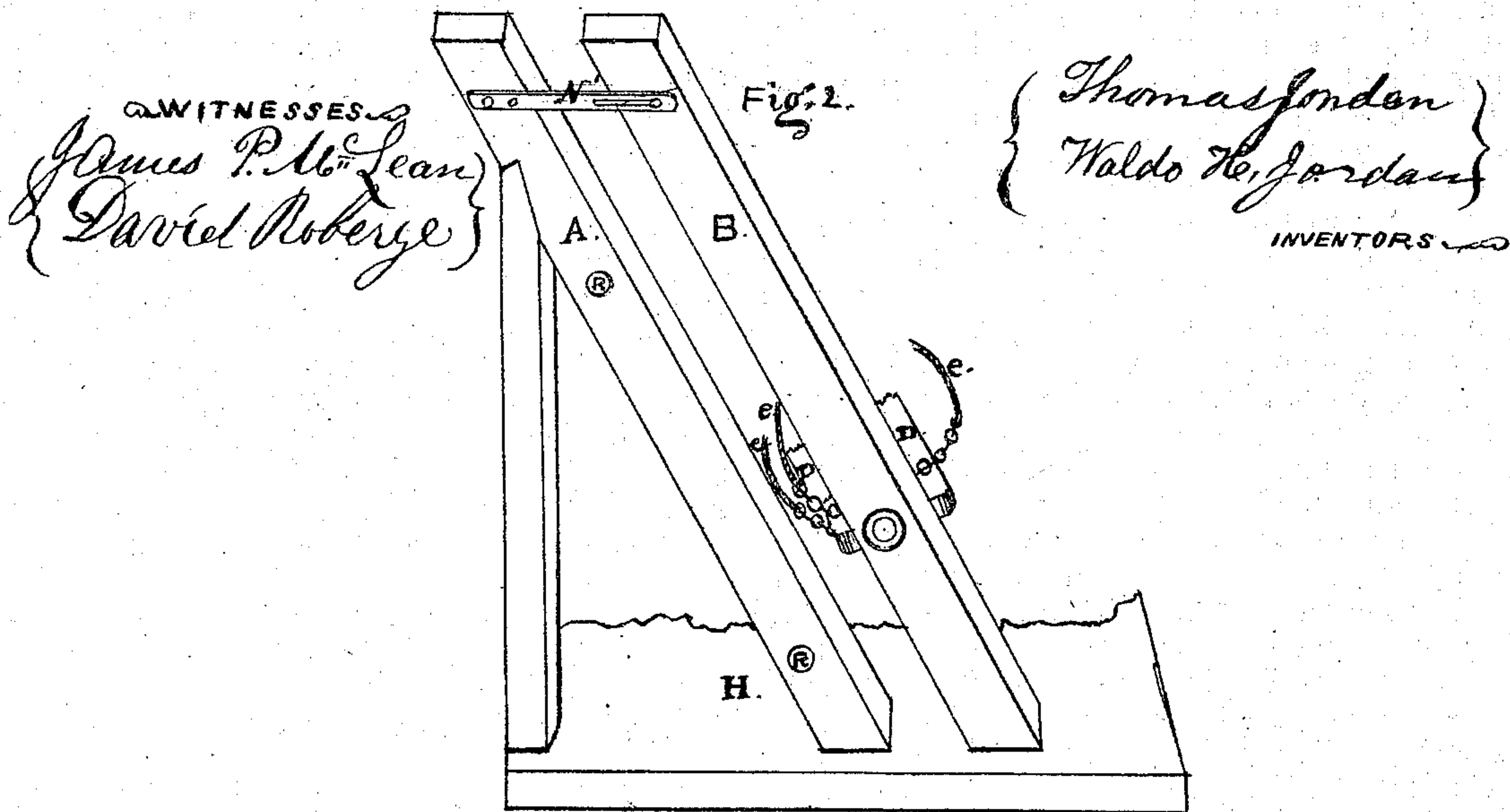
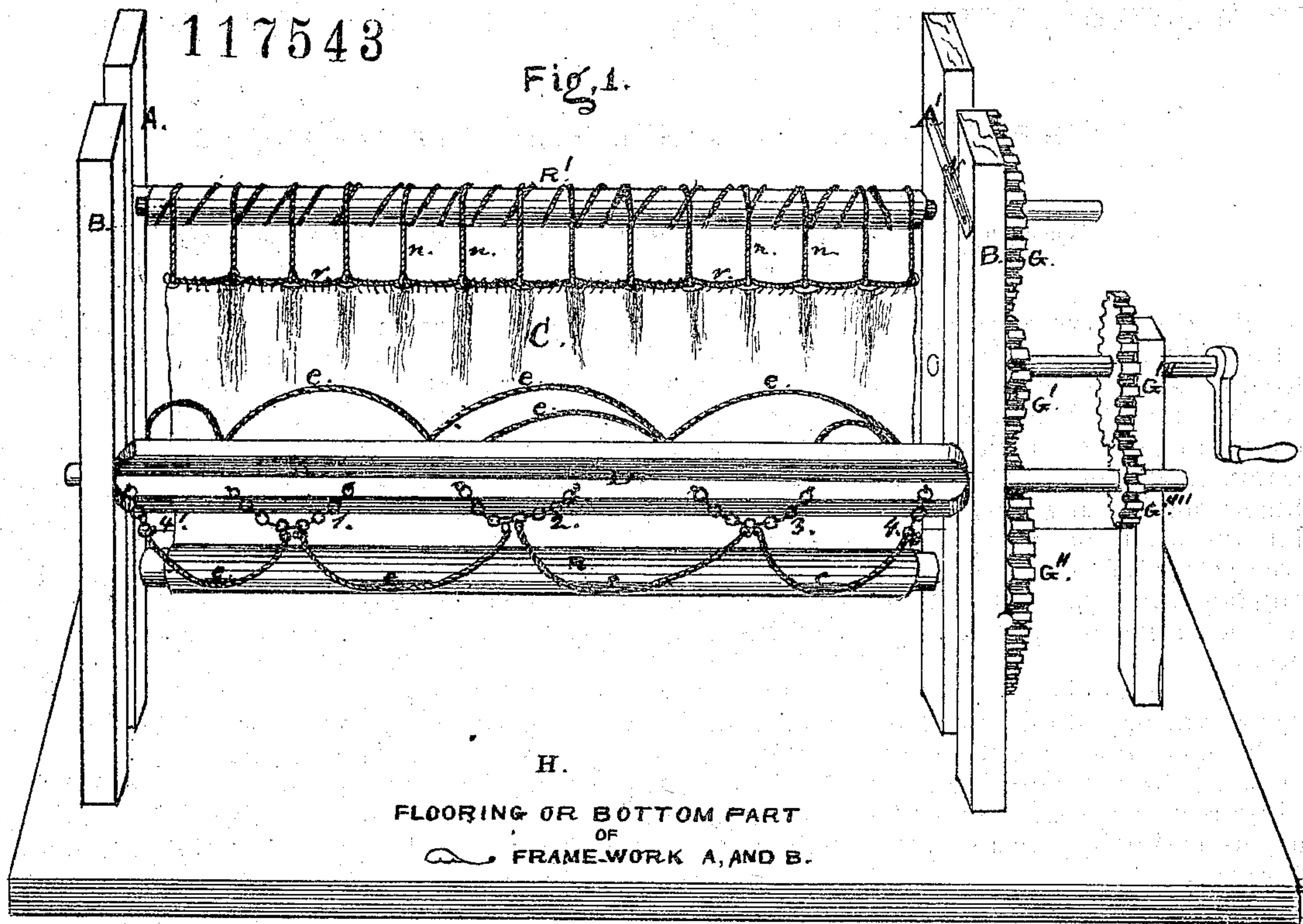


T. & W. H. JORDAN'S CARPET BEATING APPARATUS

PATENTED AUG 1 1871



UNITED STATES PATENT OFFICE.

THOMAS JORDAN, OF BROOKLYN, AND WALDO H. JORDAN, OF NEW YORK, N. Y.

IMPROVEMENT IN CARPET-BEATING MACHINES.

Specification forming part of Letters Patent No. 117,543, dated August 1, 1871.

To all whom it may concern:

Be it known that we, THOMAS JORDAN, of Brooklyn, in the county of Kings and State of New York, and WALDO H. JORDAN, of the city, county, and State of New York, have invented certain new and useful Improvements in Machinery for Beating Carpets; and we hereby declare in what manner the same is to be constructed by the accompanying specification and drawing, which are lettered to correspond with each other and to constitute a part of the application.

To enable the public to understand the nature of our joint invention, and those who are skilled in the mechanic arts to construct and operate the same, we will describe it, as follows, to wit:

Figure 1 is a front elevation of our improved carpet-beating apparatus. Fig. 2 is an end view of Fig. 1.

A A' is the supporting frame-work, upon which the rollers R R' revolve when operated by the gearing G G' G'' G''', Fig. 1, which may be worked by a crank or pulley, by hand, steam, or other power. B B are the vertical or inclined supports upon which the shaft D revolves by means of the cogged gearing G''' G''', Fig. 1, or by any other device that will give the required rotatory motion to the shaft, so that the flexible beaters e e e e e will strike against the carpet C, Fig. 1, which is wound upon the bottom roller R, and the upper edge is suspended from the top roller R' by means of small ropes n n n n, which are provided with grommets or eyelets at their lower ends to receive and hold the head-rope r r, to which the upper edge of the carpet C is sewed. The lower roller R is also provided with short cords n n n and head-rope r r, to which the lower edge of the carpet is sewed, by which means we dispense with the use of canvas to secure the carpet upon the rollers R R', and thereby save the heavy expense attending the use of canvas, which is always fraying out during the process of cleaning carpets by machinery, while the head-ropes r r will last for a whole season and more effectually perform the service required of them. The beaters e e e e e are constructed in sections of short rope, having their ends secured to the centers of the short sections of chains 1 2 3, excepting the extreme end sectional parts of rope, which are secured to the end links of the short sections of chains 4 and 4'.

By this manner of constructing the flexible beaters e e e e e we counteract the objectionable features of the use of the ropes alone or of the chains alone, which are as follows: The ropes are constantly wearing out where they cross each other, and, on account of the irregular surface of the chains, the carpets are liable to be broken, particularly if they are much worn; but by our combined arrangement of the individual parts of flexible beaters e e e e and 1 2 3 4 4' we counteract both the objections set forth and perform the work at less labor and expense without injury to the carpets; and we believe that we have produced a novelty in a machine that may be worked by steam or other power, or the carpet may be beaten by hand (with sticks) by simply unshipping the frame B B and removing the beaters and shaft D. We then have a single frame, A, with the carpet stretched upon the rollers R R', to be lightly whipped, if thought best. N N' are gauge-bars to hold the frame B B in its place.

The novelty of our improvements consists in a machine that will beat carpets without injury to the same, and without the usual wear and tear to the beaters, &c., by means of combining short sections of chains with sections of rope, arranged so as not to chafe each other, and the chains arranged so as to receive all the wear at the ends that connect to the roller D; also, the arrangement of the adjustable frame B B for the purpose of using the frame A separately, if desired, for hand-work. Therefore,

What we claim as our joint invention, and desire to protect by Letters Patent of the United States, is—

Arranging the sections of rope e e e e so that the several ends thereof will be secured to the center of the short sections of chains 1 2 3 4 4', in combination with the separate parts A A and B B, rollers R R', and head-ropes r r, secured with grommets, for the ostensible purpose substantially as above set forth and shown in the drawing.

In testimony whereof we hereunto subscribe our names in the presence of two witnesses.

THOMAS JORDAN.

WALDO H. JORDAN.

Witnesses:

JAMES P. MCLEAN,
DAVID ROBERGE.