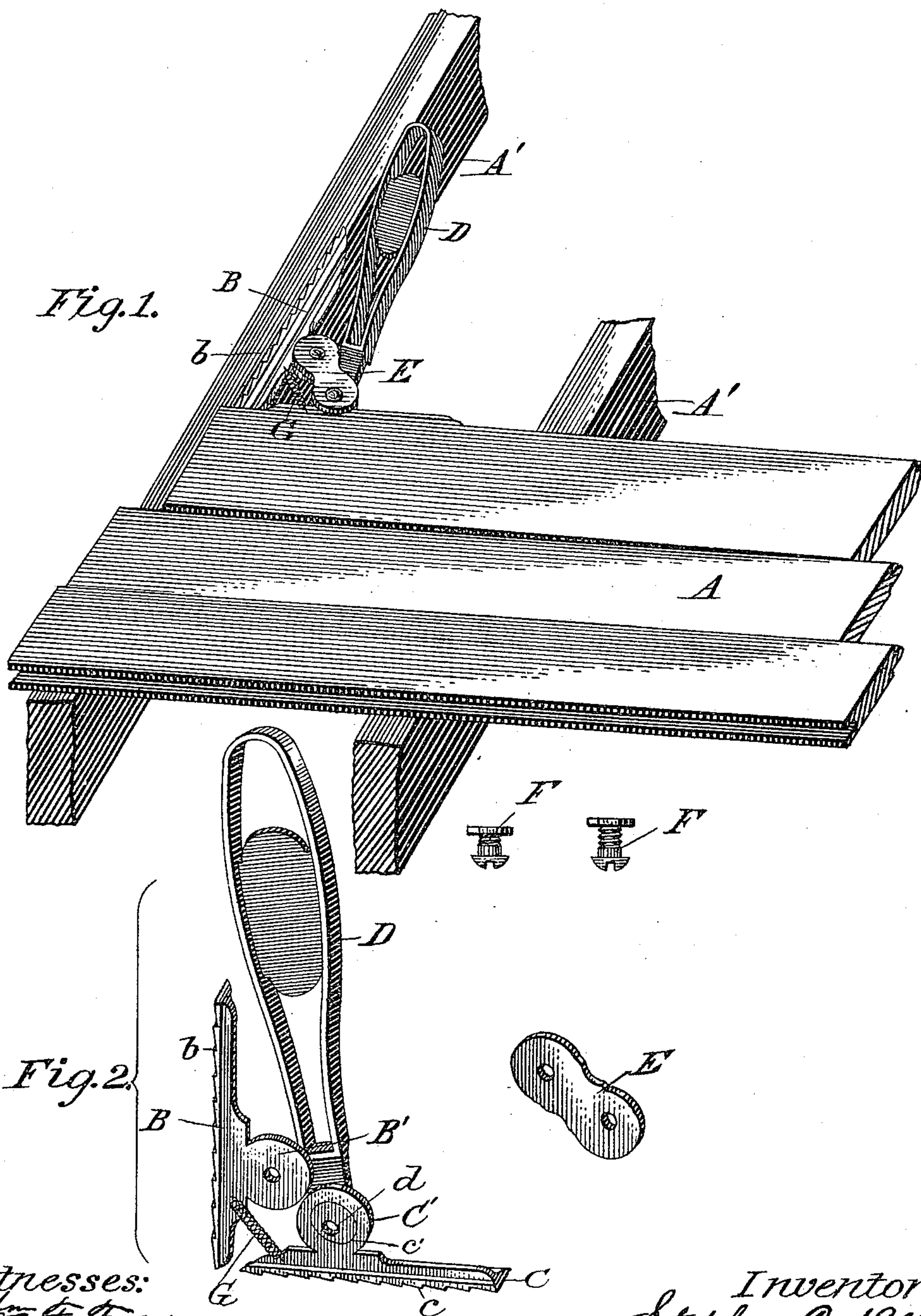


(No Model.)

S. C. HILL
FLOOR SET.

No. 440,311.

Patented Nov. 11, 1890.



Witnesses:
W. F. Frenx
J. H. Bloomb

Inventor:
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UNITED STATES PATENT OFFICE.

STEPHEN C. HILL, OF PAYNE, OHIO.

FLOOR-SET.

SPECIFICATION forming part of Letters Patent No. 440,311, dated November 11, 1890.

Application filed April 23, 1890. Serial No. 349,192. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN C. HILL, a citizen of the United States, residing at Payne, in the county of Paulding and State of Ohio, have invented a new and useful Floor-Set, of which the following is a specification.

My invention relates to improvements in floor-sets to attach to joists or other frame-timbers, and for the purpose of forcing flooring, ceiling, or siding boards to their proper place for nailing; and the objects of my improvements are, first, to provide a floor-set sufficiently light and convenient to be carried in a carpenter's apron-pocket, so avoiding stooping or going for it when needed; second, to secure a lateral as well as vertical pressure for tight end as well as side joints; third, to make it reversible, that it may work equally well on either right or left side of framing-timber as well as in close corners, and, fourth, to secure a simultaneous application to board and timber and thus save time. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view showing my device applied to the flooring and ready for setting the same; and Fig. 2 is a detail view of the set, showing the several parts detached.

Like letters of reference refer to corresponding parts in the several figures.

Referring to the drawings, the letter A indicates the flooring-boards, and A' the timbers or supporting-joists.

Fig. 1 illustrates my complete device as applied to the flooring, and this device consists of the following parts in combination, the operation and coaction of which will more clearly appear from the description which follows.

The letter B indicates one of the presser-feet, the contacting-surface of which is provided with a serrated edge *b*, which is adapted to bear against the timbers or joists. This foot is provided upon its inner edge, preferably at a point somewhat removed from its center, with a disk B'. A similar presser-foot C is arranged to bear upon the edge of the flooring boards or planks, and is likewise provided with a serrated contacting-edge *c*, and upon its inner edge with a centrally-apertured disk C', also slightly removed from the

center. It will be noticed from the drawings that when this last-named presser-foot is in proper position it will be below the projecting tongue of the plank and bearing against the shoulder formed thereby.

The presser-feet are operated by means of a lever D, said lever provided at its lower end with a raised eccentric-disk *d*, which fits the aperture *c'*, formed in disk C'. 60

The disks B' and *d* are connected by means of a link E, said link being connected to the former disk concentrically and to the latter eccentrically by means of screws F F.

Connecting the two presser-feet at a point near the angle of the same is a spring G, which serves the function of holding the parts in juxtaposition, so as to render the device ready for immediate application without unnecessary loss of time. 70

The above being the construction of my improved device, its operation and application are as follows:

The device being adjusted, as clearly shown in Fig. 1, with the lever parallel with the joists, the same is then forced toward the presser-foot C, and as the lever is connected with disk C' by means of the raised eccentric *d*, which latter in turn is connected to disk B' by means of the link E, the effect of this pressure will necessarily be to force the presser-foot B diagonally against the timber and presser-foot C diagonally against the board of the flooring. The teeth of the feet gripping the wood-work materially assist in the operation. 85

It will be noticed from the above that the pressure exerted through the medium of the lever eccentric-disks and link is diagonal, so that the pressure exerted by the presser-feet will not only be direct but lateral. It will be readily seen from this that the flooring will be subjected practically to two lines of pressure, so that the board being acted upon will be set securely at the end as well as side or edge and in perfect alignment. 95

From the foregoing description the operation, construction, and advantages of my improved device will be readily understood.

It will be seen that it is exceedingly simple in construction, inexpensive in production, and can be quickly and easily adjusted. 100

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. In a floor-set, the combination of presser-
5 feet provided upon their outer edges with
teeth or serrations and formed or provided
upon their inner edge with disks, an operat-
ing-lever provided at its lower end with a
raised eccentric-disk adapted to fit the open-
10 ing in the disk of one of the presser-feet, a
connecting-link, and screws therefor, substan-
tially as set forth.

2. In a floor-set, the combination of presser-
feet formed or provided with disks, an oper-
ating-lever, connections between said operat- 15
ing-lever and presser-feet, whereby the latter
are actuated, and a spring connecting the
presser-feet, substantially as set forth.

STEPHEN C. HILL.

Witnesses:

EDWARD SHILTS,
ROSY SHILTS.