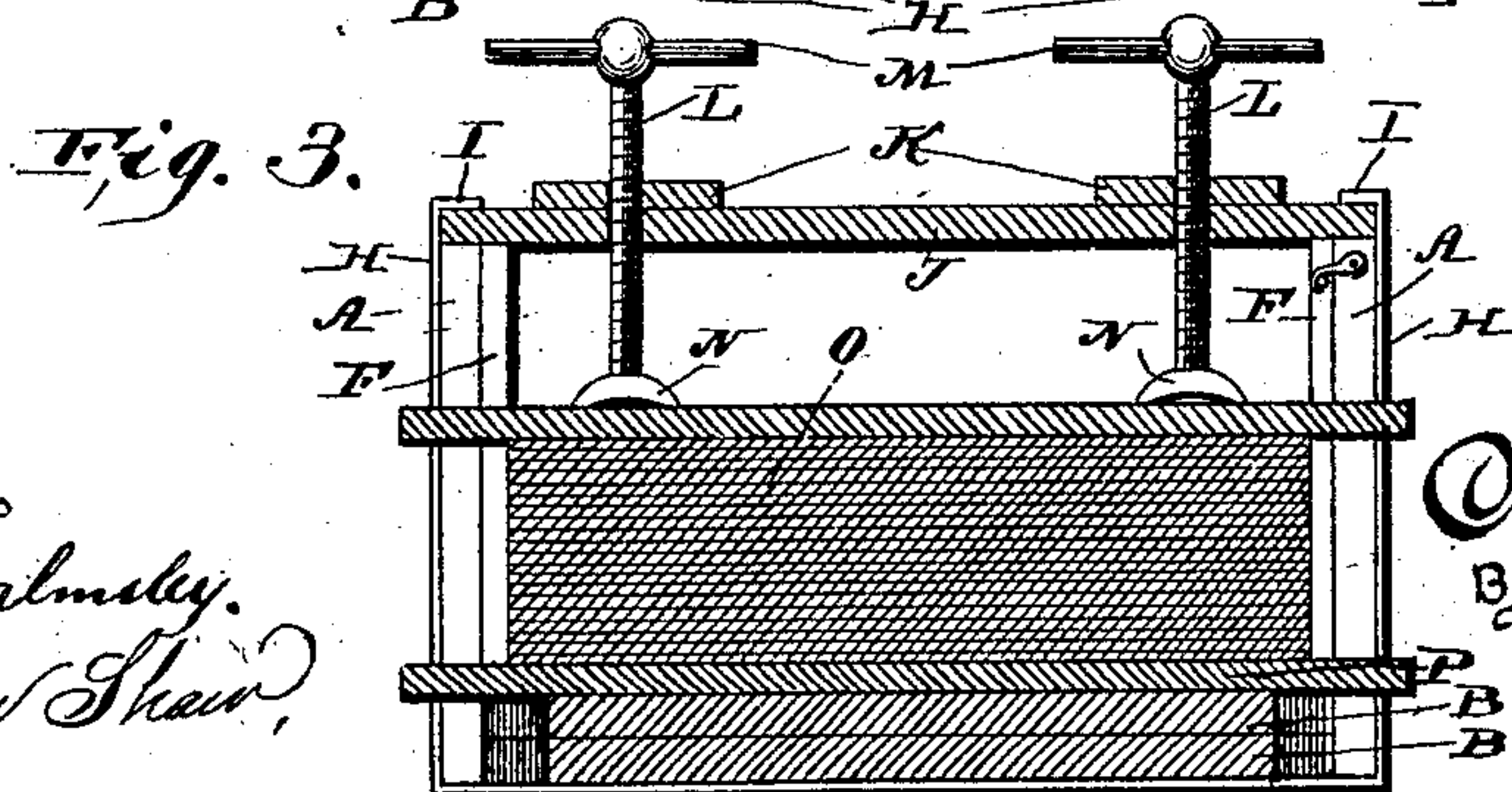
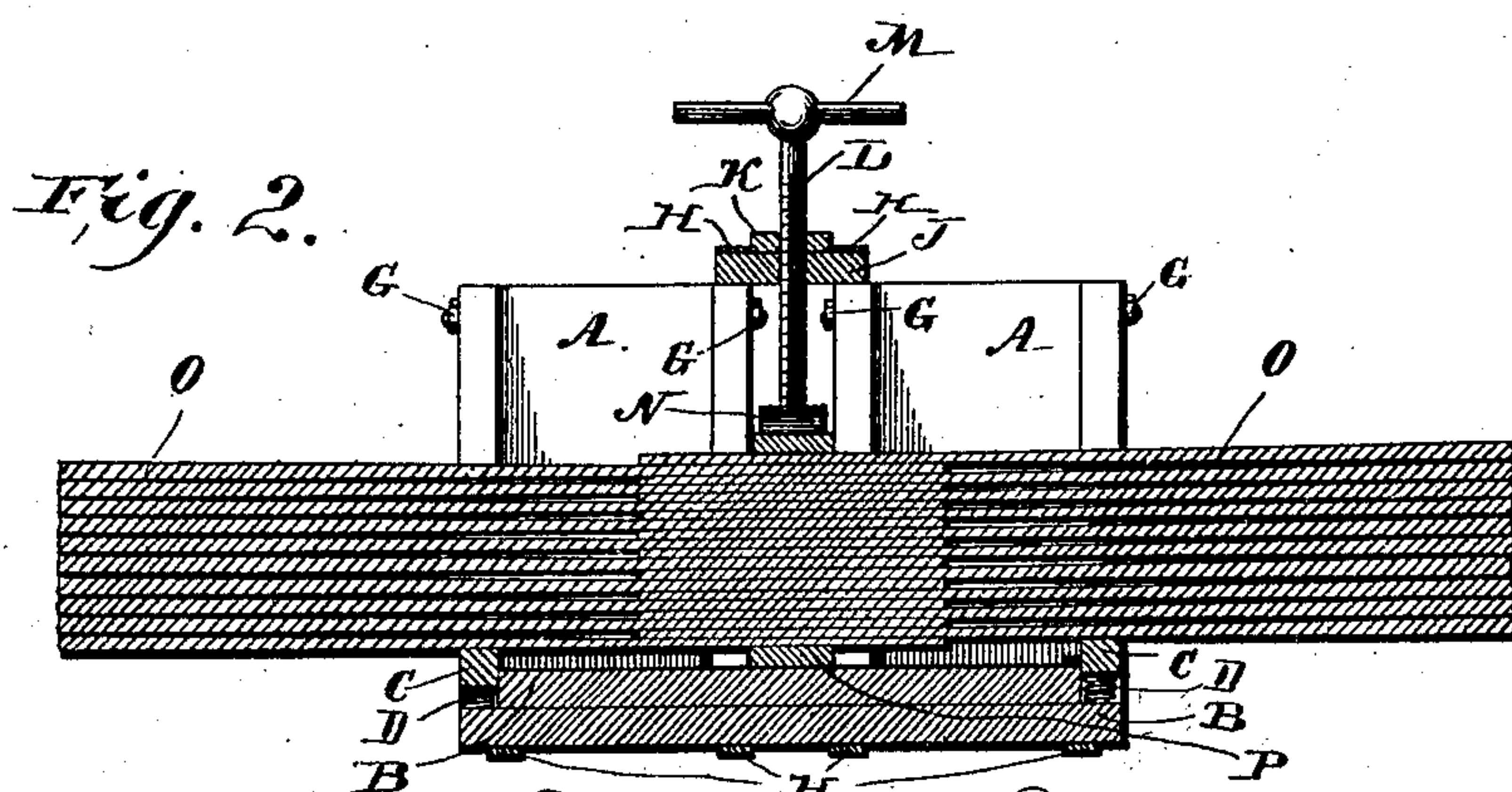
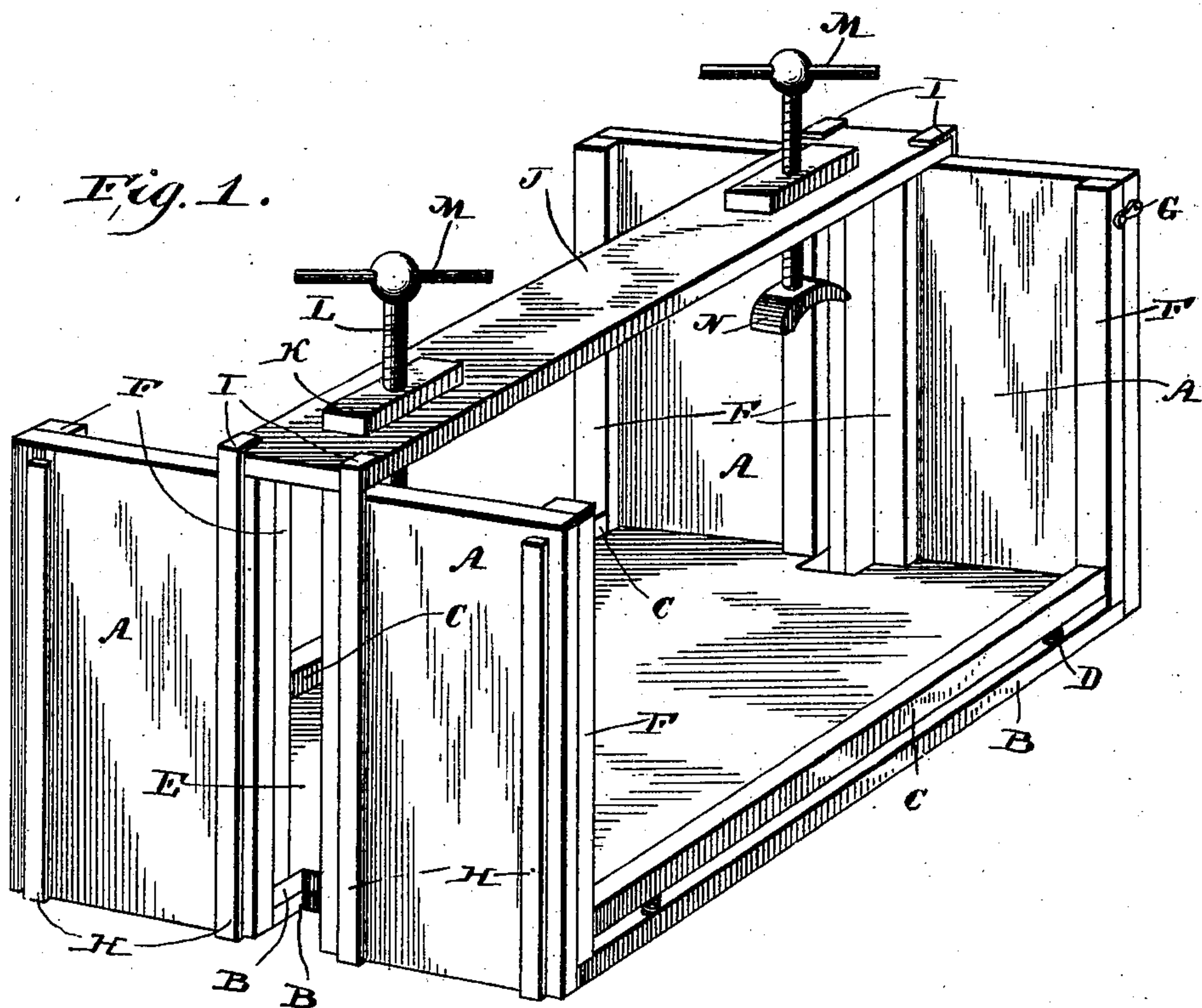


No. 682,734.

Patented Sept. 17, 1901.

C. D. McLEAN.  
SHINGLE BUNDLER.  
(Application filed Dec. 11, 1900.)

(No Model.)



Witnesses

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# UNITED STATES PATENT OFFICE.

CHARLES DANIEL MCLEAN, OF ROXBURY, MASSACHUSETTS.

## SHINGLE-BUNDLER.

SPECIFICATION forming part of Letters Patent No. 682,734, dated September 17, 1901.

Application filed December 11, 1900. Serial No. 39,502. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES DANIEL MCLEAN, a subject of the Queen of Great Britain, residing at Roxbury, in the county of Suffolk and State of Massachusetts, have invented a new and useful Shingle-Bundler, of which the following is a specification.

This invention relates to improvements in devices for forming shingles into bundles; and the object is to provide a simple and improved construction in which shingles may be placed and pressed into bundles and held in position to be tied or otherwise secured.

With the above object in view the invention consists in the novel features of construction hereinafter fully described, particularly pointed out in the claim, and clearly illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a construction embodying my invention; Fig. 2, a vertical transverse sectional view of the same, showing a bundle of shingles in position therein; and Fig. 3, a vertical longitudinal sectional view.

The invention consists of a frame or box to receive the shingles, comprising end walls A and a double bottom wall B B. The upper wall B of the bottom terminates at each of its side edges short of the lower wall B, and mounted on the projecting portions of the lower wall are yielding bars C, connected to said lower wall by coiled springs D, which normally hold said bars above the upper surface of the upper wall B. The walls A of the box are formed with vertical openings E, centrally disposed, for the purpose of permitting the insertion of binders for the bundles. Said walls A are braced by the vertical cleats F, disposed at the ends thereof and on each side of the vertical openings E. The cleats of one of the end walls A are made removable and are held in place by hooks G. The bottom and end walls of the box are also braced and securely held together by metallic bands H, also disposed at the ends of the end walls and at the edges of the vertical openings E. The bands H at the vertical openings E project above the upper ends of walls A and have their ends bent at right angles and inwardly to form retaining-flanges I, beneath which the ends of a removable bar J are inserted, said bar extending longitudinally of the box and having near its ends vertical bearing-blocks K. Compressing-screws L are mov-

able through these bearing-blocks by rotation, said screws being provided at their upper ends with operating-handles M and at their lower ends with shoes N, which engage a binder P at the upper end of the bundle of shingles O, a similar binder being placed beneath the bundle. These screws are operated to compress the bundle and hold it in that condition until the ends of the binders P are tied by a rope or wire, after which the screws are operated to release the bundle and the latter removed, the removable cleats F being removed to facilitate the withdrawal of the bundle of shingles. As the bundle of shingles fits very closely to the inner sides of the box, it would be difficult to withdraw the same without the side edges thereof contacting with the sides of said box, and thereby disarranging some of the shingles. This, however, is obviated by removing the cleats upon one side, which leaves a space so that the bundle may be readily withdrawn without the sides thereof contacting with the sides of the box.

The spring-bars at the ends of the bottom are provided for the purpose of compensating for the lower board P, which is placed beneath the pile of shingles, said bars projecting above the bottom equal to the distance of said board. These bars also give the proper form to the bundle when the compression-screws are operated. When pressure is applied to the center of the bundle of shingles, the shingles at their ends separate, which separation in a downwardly direction is permitted by the yielding of the spring-bars, so that the gradual slant from the center of the bundle to the outer ends thereof caused by the separation of the shingles at their outer ends is permitted.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A device of the character described comprising a box, open at its top and sides and having vertical cleats on the inner sides of its end walls, the cleats of one end wall being removable, means for securing said cleats in position, a removable cross-bar positioned at the upper end of said box, and compressing-screws movable through said bar, substantially as described.

CHARLES DANIEL MCLEAN.

Witnesses:

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