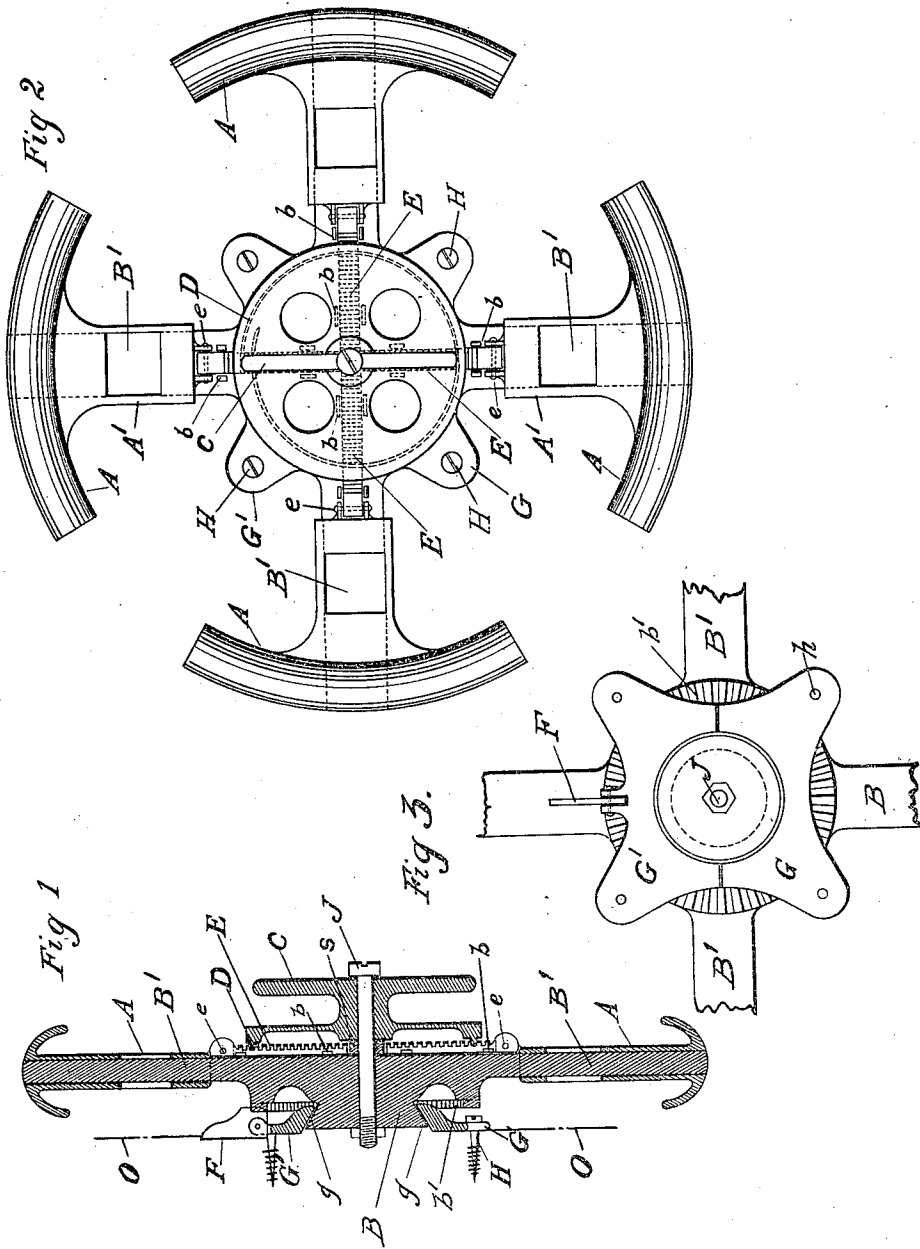


T. W. BAKER.
 COLLAPSIBLE CORE.
 APPLICATION FILED AUG. 26, 1910.

1,007,413.

Patented Oct. 31, 1911.



WITNESSES:
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UNITED STATES PATENT OFFICE.

THOMAS W. BAKER, OF NEW YORK, N. Y.

COLLAPSIBLE CORE.

1,007,413.

Specification of Letters Patent.

Patented Oct. 31, 1911.

Application filed August 26, 1910. Serial No. 579,059.

To all whom it may concern:

Be it known that I, THOMAS W. BAKER, a citizen of the United States, and a resident of the borough of Brooklyn, of the city of New York, in the county of Kings and State of New York, have invented a certain new and useful Collapsible Core, of which the following is a specification, the same being a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to instruments of wood, metal, or other material, designed to hold articles so as to keep them in the same desired relative position, and in particular to a gripping device provided with extensible jaws and adapted to move in unison in order to simultaneously grasp articles, as an automobile shoe, at different points, and to hold the same rigidly in the position required for repairing them.

The invention consists of a peculiar construction and arrangement of parts herein-after described and illustrated in the drawings which accompany and form a part of this specification, and in which—

Figure 1 is a central longitudinal section of an article constructed according to my invention; Fig. 2 is a plan view of the same; and Fig. 3 is a view in detail of a portion of the bottom of my clamping device.

Like letters of reference indicate like parts in all the views.

Referring particularly by reference characters or symbols to the drawings, A represents a plurality of preferably segmental supporting devices ordinarily provided with shanks A', each one being detachably engaged with and preferably pivoted, as at e, to an ordinarily radially disposed reciprocatory member of a distensible device, as a sliding bar or rack E, the said bars being preferably constructed and arranged to work on the arms B' extending from the frame or bed B. The extensible segments A are preferably convex in contour so as to readily fit within the shoe, and the shanks are ordinarily constructed and arranged to be engaged in a movable manner, so as to work back and forth thereon, with the arms B' of the frame or bed B, as for example, in the present instance, by being formed in preferred construction with an interior hol-

low portion adapted to register with the conformation of some portion of the said arms B'.

I provide means for simultaneously operating the segmental supporting devices A, as, for example, a handle, or other manually actuated device C, which ordinarily operates the other member of my distensible device preferably consisting, as in the present instance, of a worm or spirally formed rib D, ordinarily constructed and arranged to be continuously engaged with each of the racks E, and thereby operating the reciprocating shanks A' and segments A and moving the same in a forward and rearward direction by the sole operation of the manually actuated device, the said handle C being suitably attached in a rotatory relation with the bed B by any desired or approved fastening means, as for example, the bolt J upon which the bed B also revolves.

The lower part of the bed B is preferably made of a frusto-conical contour, and may be attached to any desired supporting means in a rotatory relation, by any suitable means, as the base, consisting in the present instance of the plates G, G', provided ordinarily with circular undercut jaws adapted to register with and to conform in contour with the frusto-conical lower portion of the bed B. The said plates G, G' are preferably formed with orifices h for the reception of screws H for purposes of attachment to a wall or other support. I also preferably provide means whereby the bed B may be locked in any desired position to which it may be turned, as, for example, by means of gear teeth b' with which a dog F, ordinarily fastened to one of the plates G, G', may be engaged or interlocked.

In operation, the automobile shoe may be hung on one of the segments A, and by manipulating the handle C the said jaws may be distended, by means of the engagement of the spiral rib D with the racks E, so as to securely hold the said shoe.

In order to conveniently treat different parts of the shoe when the same is being repaired or re-treated, the bed B, handle C, together with the shoe, may be turned around to any desired position by releasing the locking dog F from the gear teeth b', after which the shoe and supporting base B may be securely locked again in the new

position by means of the renewed engagement of the said locking dog F with the gear teeth of the bed B.

I wish it to be understood that I do not desire to be limited to the exact details of construction shown and described herein, for various modifications will occur to a person skilled in the art.

What I claim as my invention, is:—

10 In a device of the class described, a frame or bed, a plurality of segmental supporting devices, reciprocatory members provided with racks to engage therewith, and a circular rotatable manually actuated device
15 concentric with said segments to directly

and simultaneously engage each of the reciprocatory members by means of a spirally formed rib located near the periphery of the manually actuated device to move the members practically in unison in a forward 20 and rearward direction.

In testimony of the foregoing specification, I do hereby sign the same in the borough of Brooklyn, city of New York, county of Kings and State of New York, this 26th 25 day of July, 1910.

THOMAS W. BAKER.

Witnesses:

ELMER P. STARK,
LOUIS TOTANS.