

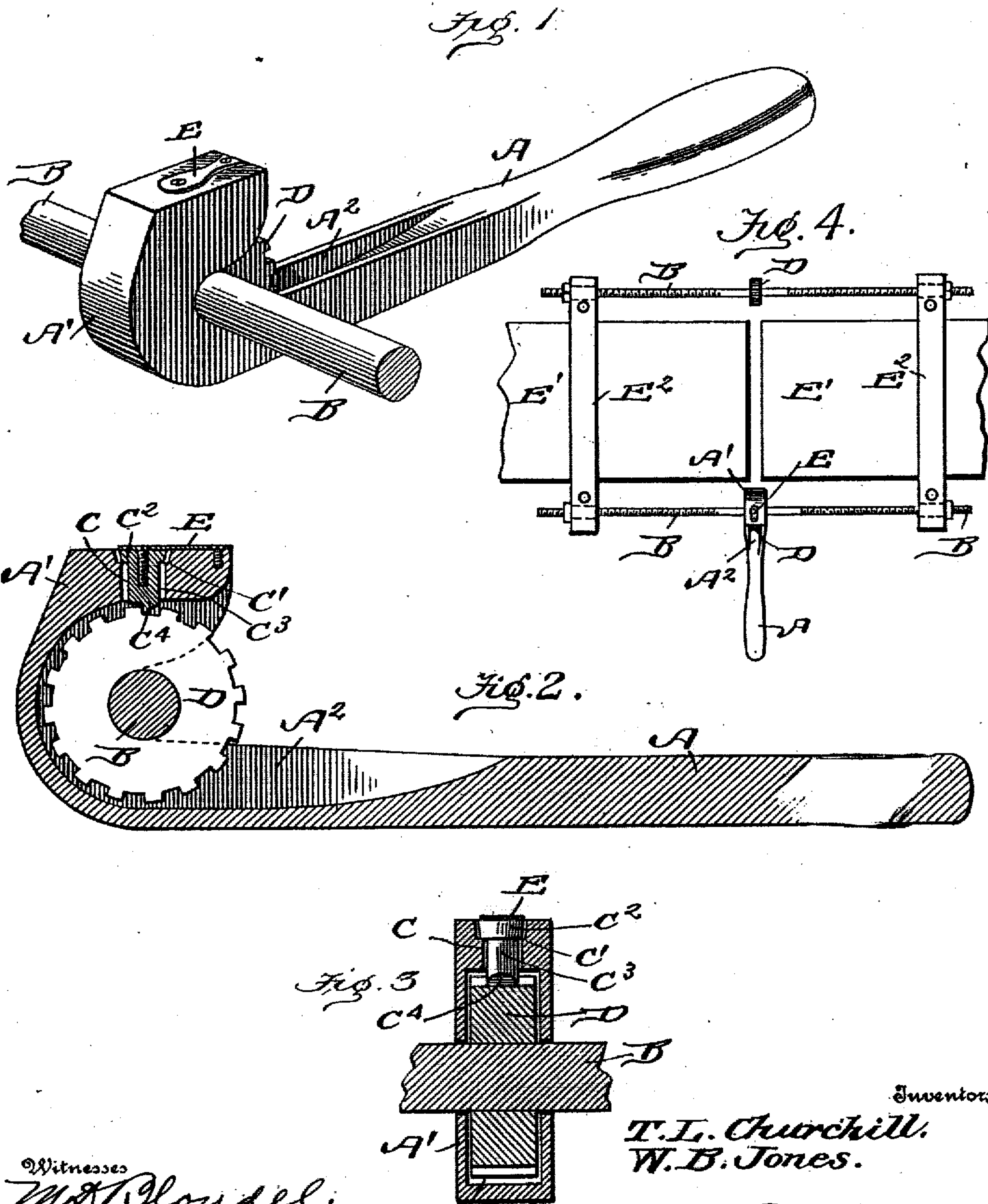
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T. L. CHURCHILL & W. B. JONES.

SPANNER WRENCH.

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Witnesses
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UNITED STATES PATENT OFFICE.

THEODORE LOUIS CHURCHILL AND WILLIAM B. JONES, OF WINSTED,
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SPANNER-WRENCH.

No. 821,280.

Specification of Letters Patent.

Patented May 22, 1906.

Application filed September 5, 1903. Serial No. 172,107.

To all whom it may concern:

Be it known that we, THEODORE LOUIS CHURCHILL and WILLIAM B. JONES, citizens of the United States, residing at Winsted, in the county of Litchfield and State of Connecticut, have invented a new and useful Spanner-Wrench, of which the following is a specification.

Our invention is an improved spanner-wrench, and has for its object the drawing together of belt ends, &c., where but a limited space is provided in which a wrench of the usual type could be used.

Our device can be used in many cases where room is not had in which to work a wrench of the well-known "monkey" or similar type.

Our invention consists of the novel features of construction and combination of parts hereinafter described, particularly pointed out in the claims, and shown in the accompanying drawings, in which—

Figure 1 is a perspective view of our spanner. Fig. 2 is a longitudinal vertical section, the ratchet being in elevation. Fig. 3 is a transverse section through the casing and ratchet-wheel, the spring-pressed pawl being in elevation. Fig. 4 is a diagrammatic view illustrating a method of using our device.

In the drawings, A represents a handle terminating at one end in a head A'. This head is curved back rearwardly over the handle. The handle is recessed on its upper face adjacent the head at A', the recess extending into the head A' and opening rearwardly. The rearward curvature of the head above the handle forms a jaw, and rotatably held within this jaw and transverse thereto is a rod B, threaded adjacent each end, the threads upon one end being to the right and those at the opposite end being to the left. The top of the head or "casing," as it may be termed, is vertically slotted, forming a guideway C, having an annular shoulder C' formed therein. A plug C² fits loosely in the upper portion of this guideway and rests on the shoulder C'. Integral with this plug is a toothed pawl C³, engaging the teeth of a ratchet-wheel D when turned in one direction and adapted to slip when turned in the opposite direction. The pawl rests loosely in the guideway and its tooth C⁴ has a straight and a beveled face.

A leaf-spring E is secured at one end on

the head A' and at the other end is secured to the plug C². As the handle is reciprocated the pawl will slip in one direction, leaving the rod and ratchet stationary. The ratchet D is fixed on the rod B and rotates in the recess of the handle, and when the handle is moved in the proper direction the pawl will engage the ratchet-teeth and the ratchet and rod will be rotated.

To apply the spanner to the rod B, it is only necessary to slightly lift the spring-leaf E, as by slipping the thumb-nail under it, thus lifting the pawl out of the recess A', and the handle can be brought into position so that the ratchet will rest in the hood formed by the recess A', and the rod will rest in the jaw formed by the head and handle. As soon as the pawl is allowed to drop it will engage the ratchet-teeth and the spanner will be locked to the rod and ratchet.

In drawing together two ends of a belt suitable sectional blocks E², having fluted inner faces to prevent their slipping, are clamped to the edges of the belt E', and these blocks are adapted to receive the threaded ends of the rod B. As previously stated, these ends are oppositely threaded, and the rotation of the rod, through the medium of the handle, pawl, and ratchet, will draw the ends of the belt together. To reverse action of the pawl, it is only necessary to turn the handle over.

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

A device of the kind described comprising a handle, said handle having a head portion bent back upon the handle, the said head and the adjacent portion of the handle being recessed, and the head having a slot formed in its periphery and communicating with the recess, said slot being enlarged adjacent its outer end to form shoulders, a flat spring secured upon the head and projecting over the slot, a plug carried by the spring and extending into the slot, and a pawl carried at the lower end of the plug, as and for the purpose set forth.

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