(No Model.)

W. A. SCOTT.

FOLDING BED.

No. 503,989. Patented Aug. 29, 1893.

Fig. 1

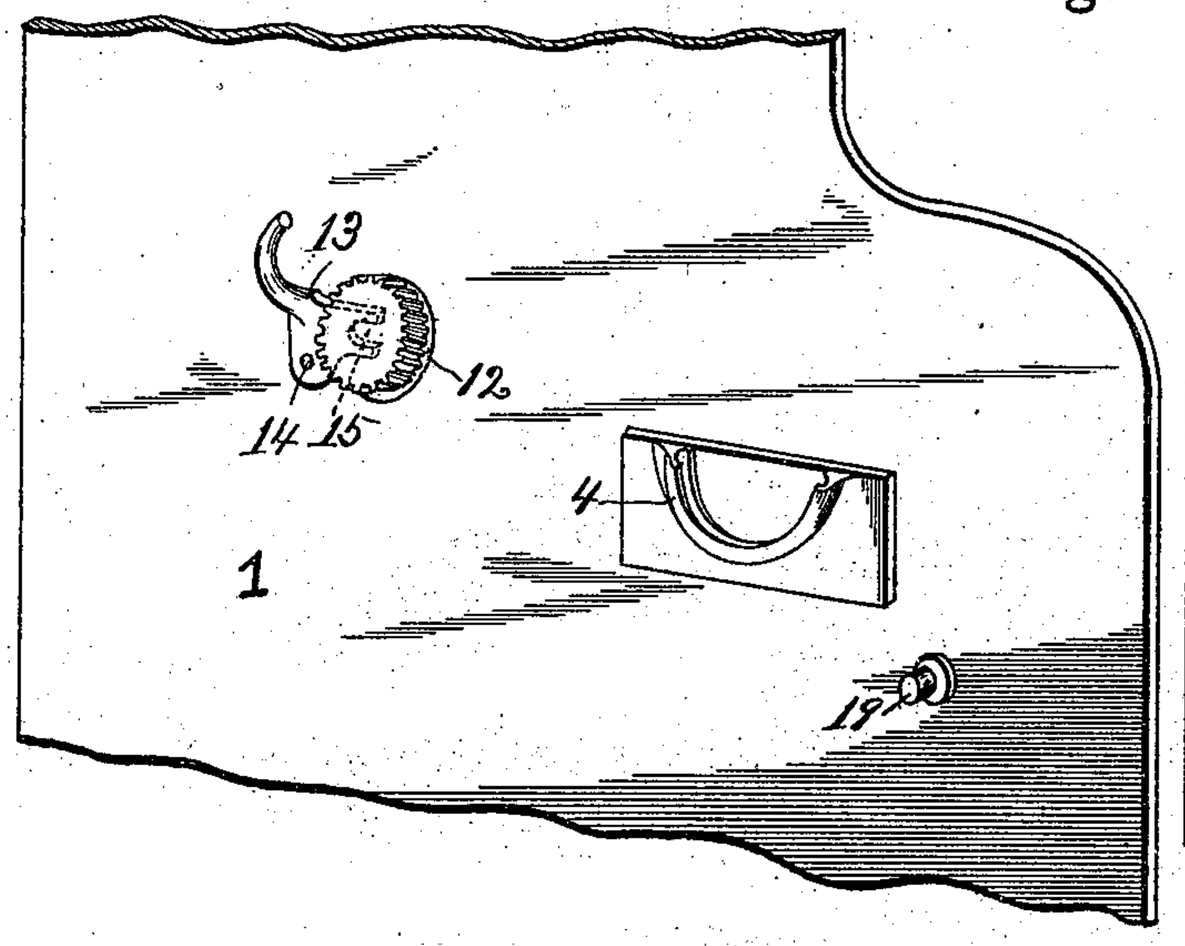
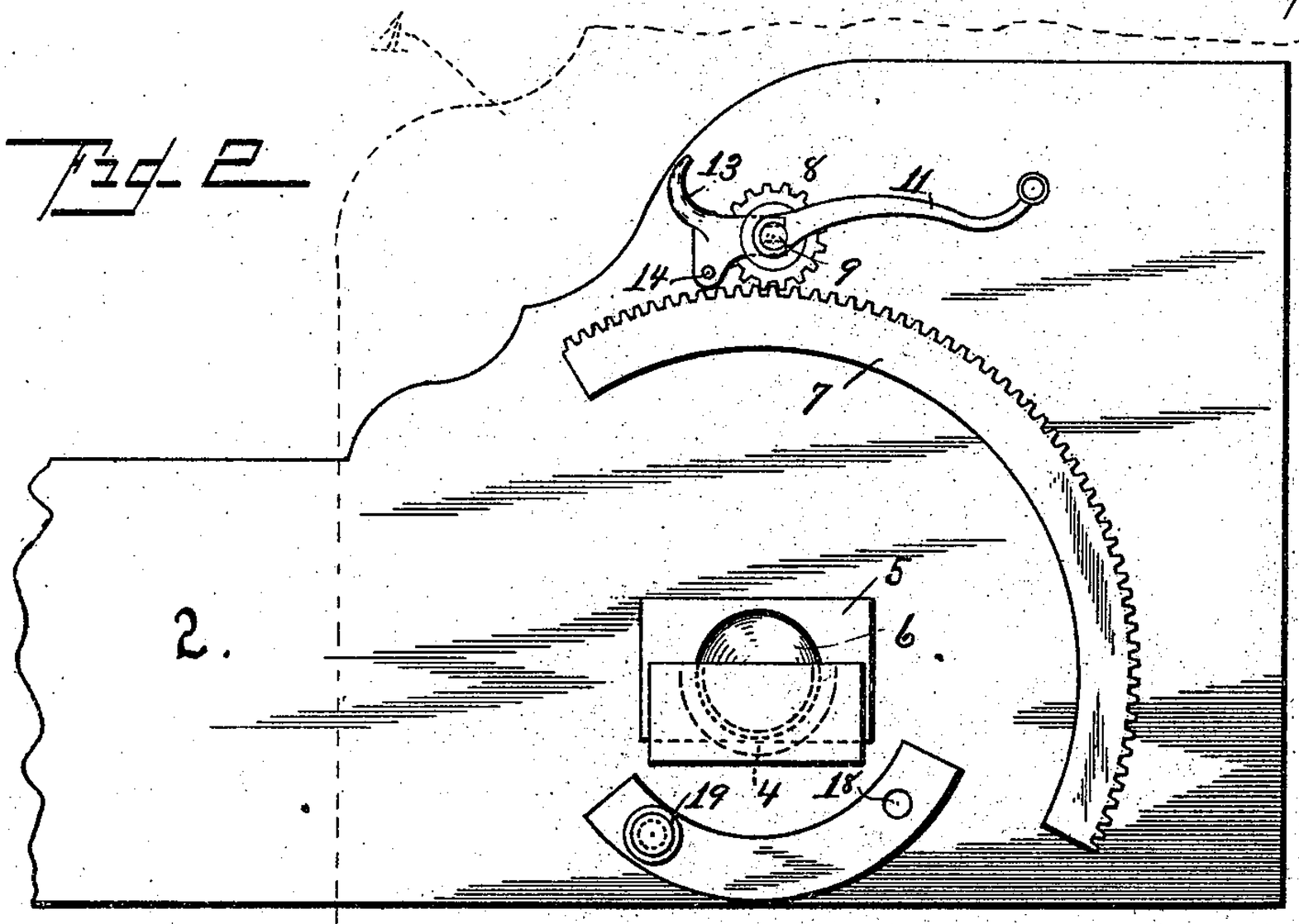


Fig. 3

Fig. 2



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UNITED STATES PATENT OFFICE.

WALKER A. SCOTT, OF EVANSVILLE, INDIANA.

FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 503,989, dated August 29, 1893.

Application filed July 14, 1892. Serial No. 440,040. (No model.)

To all whom it may concern:

Be it known that I, WALKER A. SCOTT, of Evansville, county of Vanderburg, and State of Indiana, have invented certain new and useful Improvements in Folding Beds, of which the following is a specification, reference being had to the accompanying drawings.

The object of my invention is to produce improved mechanism for operating a folding-bed, whereby a complete and practical bed may be made at a considerably lower cost than those operated by mechanism now in use, and which is strong, durable, and easily manipulated.

Referring to the figures of the drawings, Figure 1 shows an inside view of one side of the frame, illustrating the corresponding operative parts. Fig. 2 shows a diagrammatical view of the operative parts of my mechanism assembled. Fig. 3 is a detail section of the cup shaped projection 6 and connected parts.

Referring to the figures of the drawings, 1 indicates a frame, preferably made of wood in any suitable manner, and adapted to receive, as usual in its open front, a folding or bed part 2. The frame is provided on opposite sides, near its base, with bearings 3, preferably made of a cast iron plate adapted to be screwed upon the inside of the frame, and provided with a semi-circular flange 4.

5 indicates a journal preferably consisting of a cast iron plate, adapted to be screwed to the side of the bed part and provided with a cup-shaped projection 6. One of the journals is adapted to set into the adjacent bearing on opposite sides of the frame. The journal is made internally cup-shaped, as illustrated, for the purpose of giving strength to the parts, and avoiding friction in the movements of the bearing. Upon one side the bed part is secured by screws, or other suitable means, a segmental gear 7, concentric with the journal 5, and adapted to mesh with a pinion 8 projecting inwardly from the adjacent side of the frame.

9 indicates a spindle, and 10 a bearing adapted to carry the same in the side of the frame. The spindle is longitudinally, as well as revolubly, movable in its bearing, and carries on its inner end the pinion 8, and on its outer end the crank 11.

12 indicates a recess on the inside of the frame, into which the pinion may be drawn out of engagement with the segmental gear.

13 indicates a latch for holding the pinion in engagement with the gear. It is preferably pivoted at one end, as indicated at 14; and is provided with a semi-circular recess 15, which is adapted to partially encircle the bearing or spindle of the pinion and bridging the recess 12 to hold the pinion longitudinally fixed.

16 indicates a segmental plate secured by any suitable means to the side of the bed part, and provided, near its opposite end, with apertures 18, into which a spring-actuated pin 19 in the side of the frame may be set when the bed part is in the completely elevated or completely lowered position to hold it in place.

The operation of my device is as follows: The journals 5 being set into their bearings, the spindle and pinion are thrust into operative engagement with the segmental-gear, when by turning the crank in either direction the bed part may be raised or lowered, as the case may be, the spring-actuated pin having, if necessary, been first withdrawn from the apertures of the segmental plate. When the bed part reaches the proper position—that is, either the completely raised, or completely lowered position, the spring-actuated pin will immediately enter the proper aperture in the segmental plate and hold the parts fixed. If it is desired to separate the bed part from the frame, which must be frequently done for cleaning purposes or the like, all that is necessary is to withdraw the pinion from engagement with the segmental gear and move the movable part out of its bearings.

What I claim is—

In a folding-bed, the combination with a frame and a movable part, of a semi-circular flange bearing on the frame, a journal upon the movable part, a segmental gear upon the movable part, a longitudinally movable revoluble pinion carried in the frame adapted to mesh with the segmental gear, or to be separated therefrom, whereby the parts may be operated or separated, substantially as and for the purpose specified.

In testimony of all which I have hereunto subscribed my name.

WALKER A. SCOTT.

Witnesses:
PHILIP GEARING,
S. W. COOK.