

No. 685,371.

Patented Oct. 29, 1901.

D. C. DAVIS & G. P. STURM.

RECLINING CHAIR.

(Application filed Apr. 4, 1901.)

(No Model.)

Fig. 1

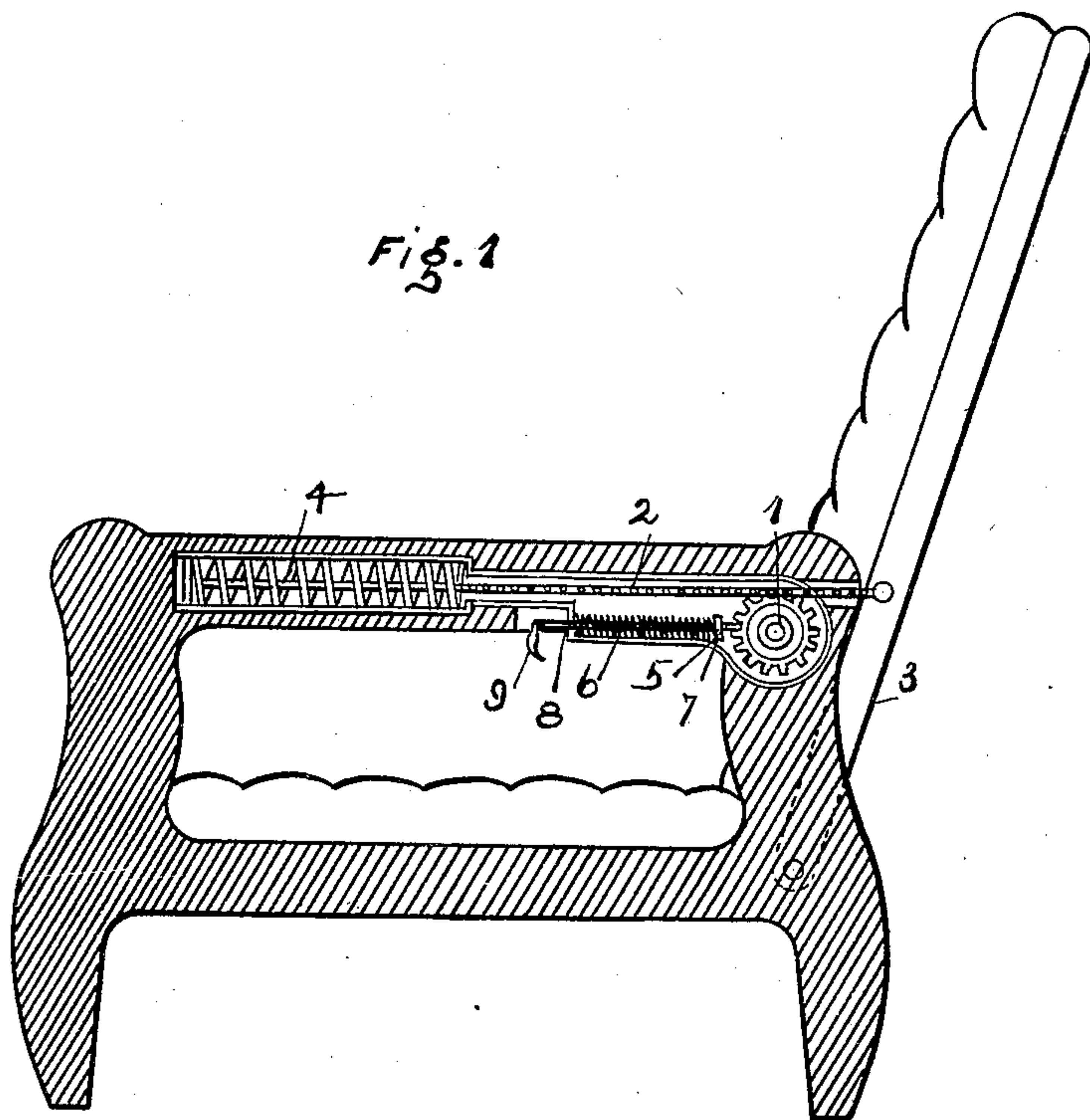
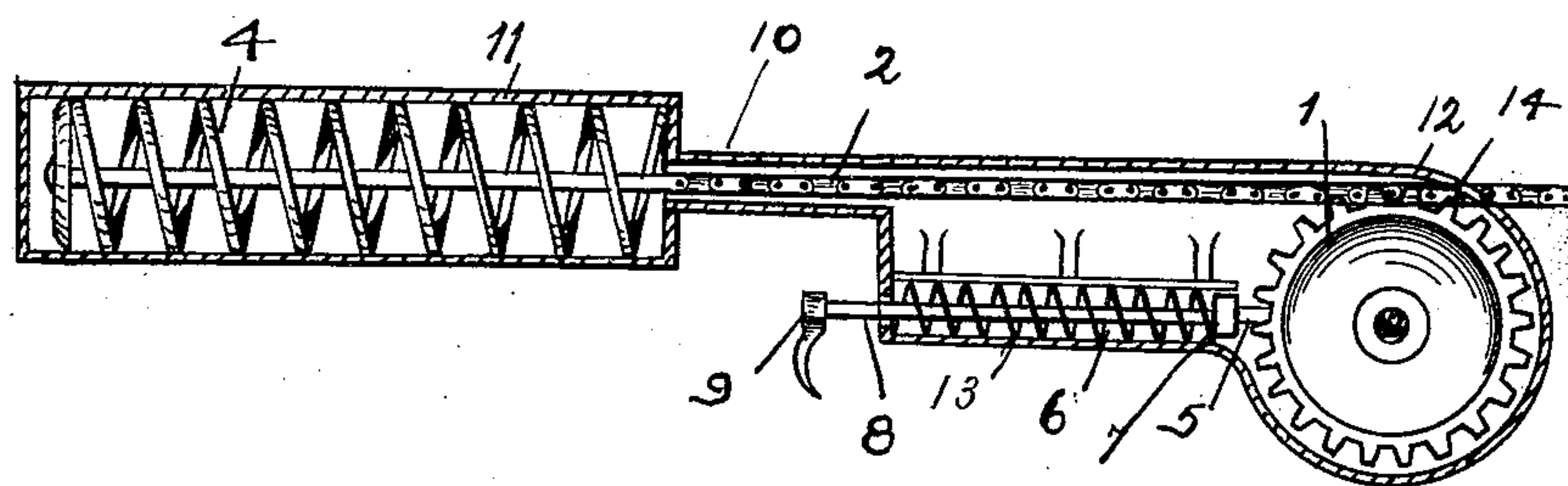


Fig. 2.



Witnesses

M. W. Fuller
J. H. Hood

David C. Davis
George P. Sturm
By their Attorney
Ernest H. Hood

UNITED STATES PATENT OFFICE.

DAVID C. DAVIS AND GEORGE P. STURM, OF COLUMBUS, INDIANA,
ASSIGNORS OF ONE-THIRD TO JOSEPH J. SCHLICK, OF COLUMBUS,
INDIANA.

RECLINING-CHAIR.

SPECIFICATION forming part of Letters Patent No. 685,371, dated October 29, 1901.

Application filed April 4, 1901. Serial No. 54,373. (No model.)

To all whom it may concern:

Be it known that we, DAVID C. DAVIS and GEORGE P. STURM, citizens of the United States of America, residing at Columbus, in the county of Bartholomew and State of Indiana, have invented certain new and useful Improvements in Reclining-Chairs, of which the following is a specification.

The objects of our invention are to provide a chair which can be easily adjusted by the occupant without getting out of the same, to provide cheap and efficient mechanism for accomplishing this result, and to provide a safe and reliable reclining-chair.

Our invention consists in the combination and arrangement of parts hereinafter described and claimed.

In the drawings, Figure 1 is a side elevation of the chair, showing the arm in section; Fig. 2, a sectional view of the mechanism for adjusting the reclining-back.

Mounted in the arm of the chair in any suitable manner is a toothed wheel 1. Passing over the wheel is a sprocket-chain 2, secured to the hinged back of the chair 3 at one end and connected at the other with a spring 4, which tends to hold the back of the chair in a vertical position. We have shown a compression-spring; but this can be a tension-spring, if desired. A sliding pawl 5 is designed to take between the teeth of the toothed wheel 1 and prevent turning of the wheel, thus effectively locking the back 3 in any desired position. This pawl 5 is held in engagement with the wheel 1 by means of a spring 6, taking against a part of the arm and against a shoulder 7 on pawl 5. This pawl is provided with an extension 8, terminating in a handy finger-piece 9, and by pulling forward on this the toothed wheel 1 will be released and the back reclined.

Each arm of the chair is provided with similar mechanism, and an occupant can recline the back of the chair by simply catching hold of finger-pieces 9 and releasing the toothed wheels, then leaning back as far as desired and letting go of the finger-pieces.

We have shown a preferred form of our invention, consisting of a casing 10, provided with a barrel portion 11, which accommodates spring 4, a rounded end portion 12, which accommodates toothed wheel 1, and a depending portion 13, which accommodates pawl 5. This case is made of light metal and is provided with a slot 14, through which the sprocket-chain passes.

A slot is cut in the under side of the chair-arm and the case inserted, thus making the arrangement very compact.

We are aware of the fact that numerous reclining-chairs have been invented, and we do not claim this broadly.

What we do claim, and wish to secure by Letters Patent, is—

1. In a reclining-chair the combination of a chair-frame having an arm and a pivoted back, a sprocket-chain secured to said back and passing into the arm; a toothed wheel pivoted to the chair-frame engaging said sprocket-chain; a spring secured to the free end of the chain and to the chair-arm; a pawl, spring-held into engagement with the toothed wheel; and means for releasing said pawl, substantially as and for the purpose set forth.

2. In a reclining-chair, a chair-frame having a pivoted back in combination with a case mounted on the chair-frame, a spring 4, mounted in said case, a sprocket-chain 2, engaging with said spring and with the back of the chair, a toothed wheel 1, carried by said case and engaging with said chain, a pawl 5 mounted in said case and engaging with the toothed wheel, a spring holding said pawl in engagement therewith, and a projection on said pawl for releasing it from said wheel, substantially as and for the purpose set forth.

DAVID C. DAVIS.
GEORGE P. STURM.

Witnesses:

E. K. HOOD,
H. H. HOOD.