

No. 740,706.

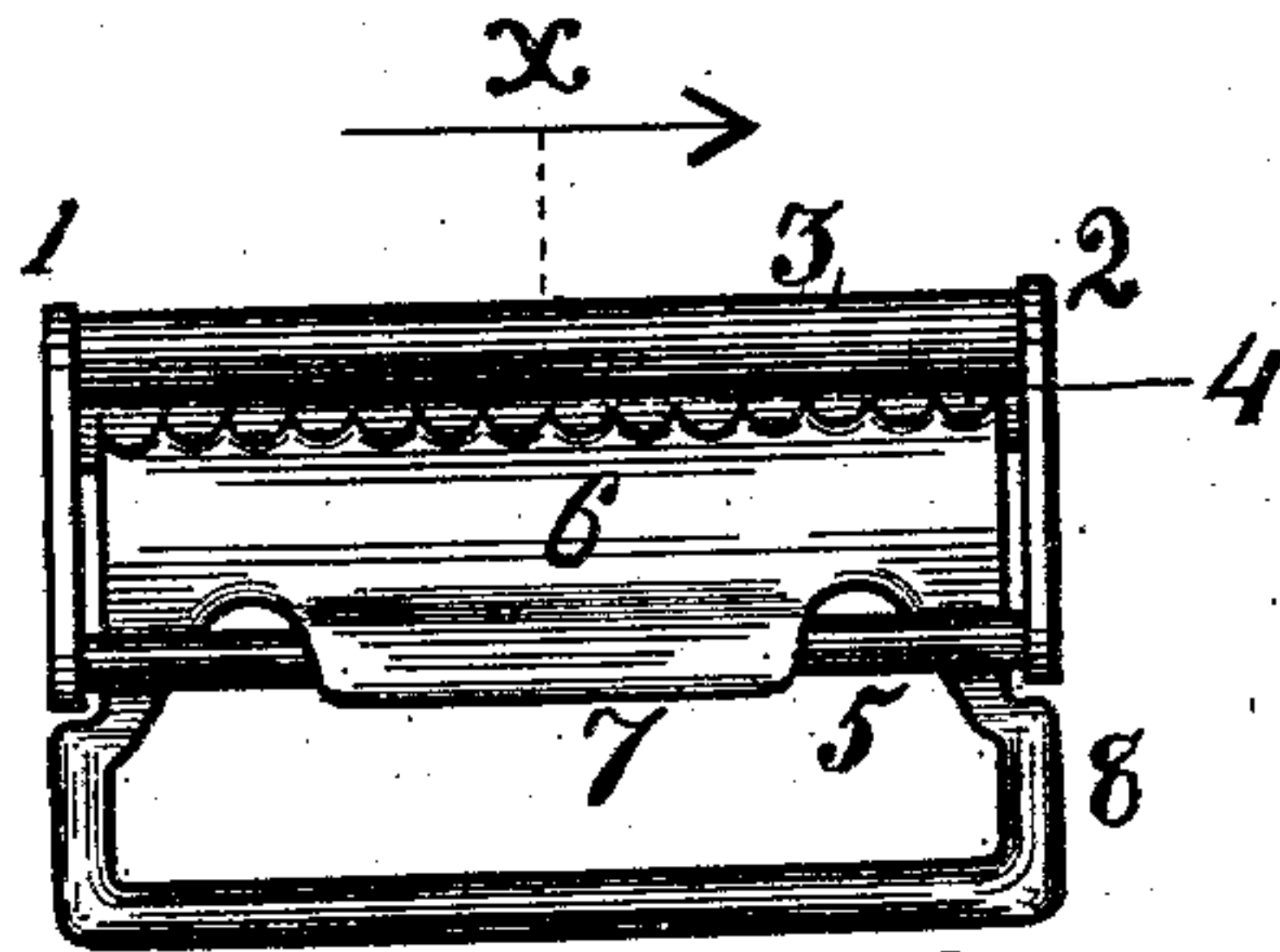
PATENTED OCT. 6, 1903.

J. S. SOUREK.

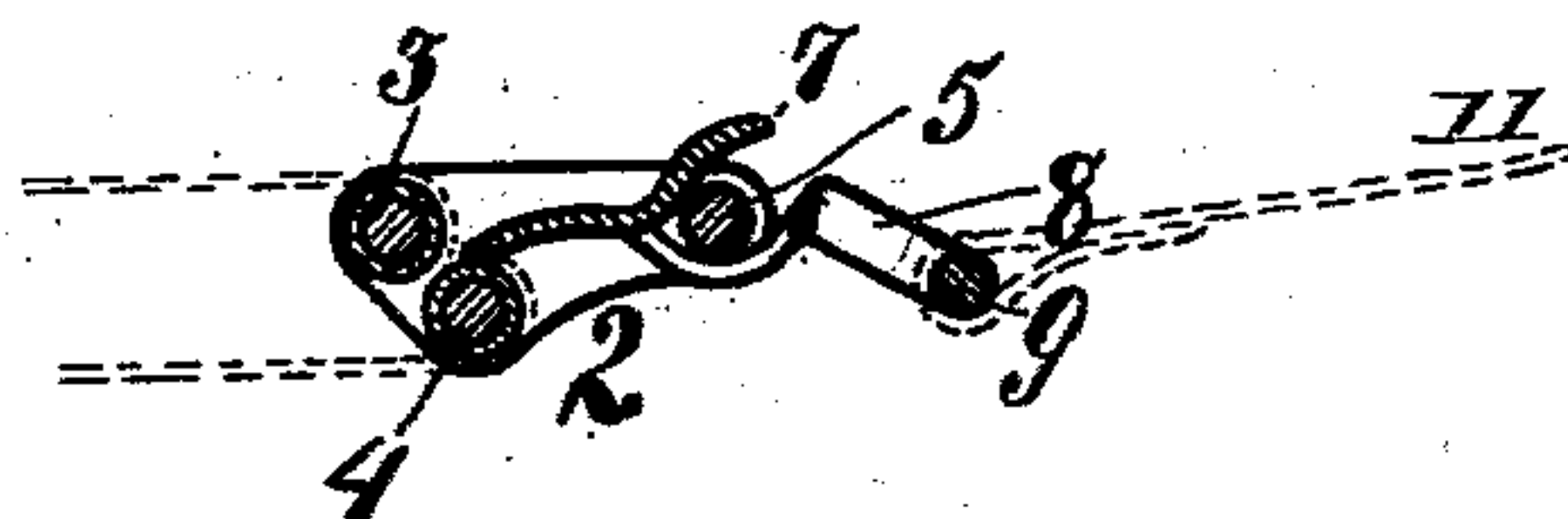
BUCKLE.

APPLICATION FILED NOV. 21, 1902.

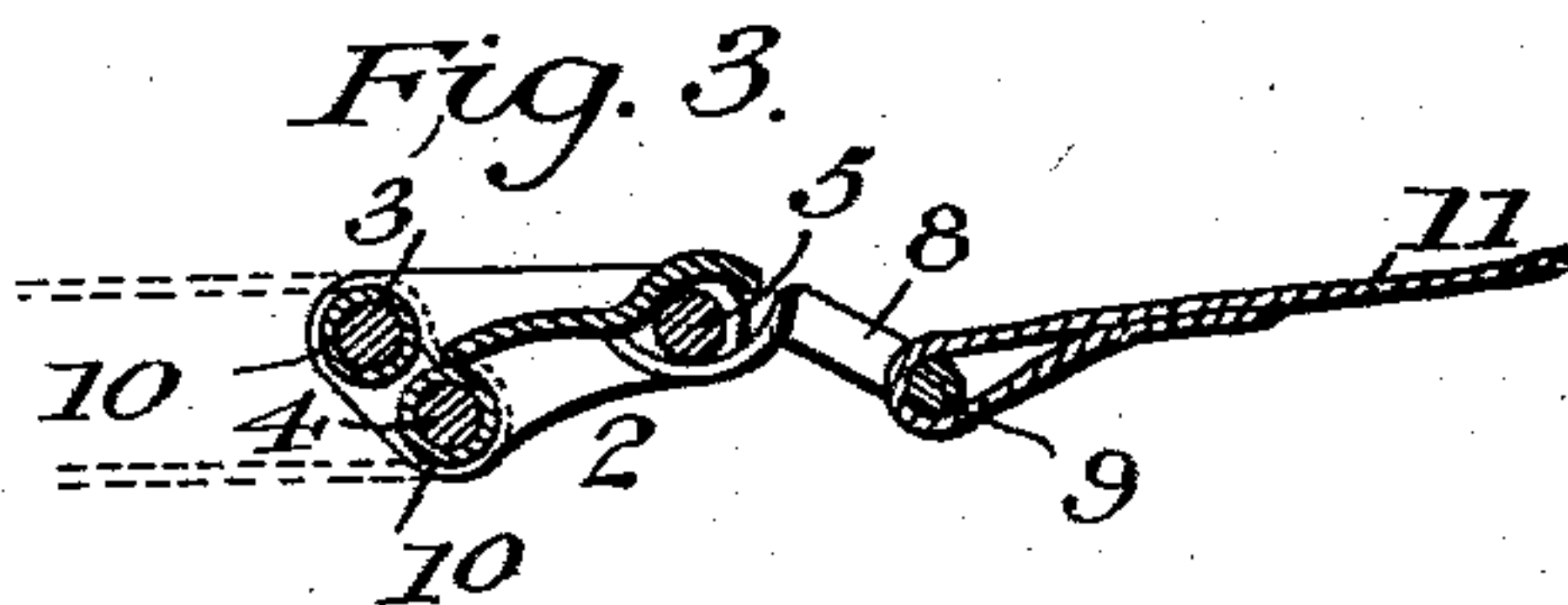
NO MODEL.



*Fig. 1.* <sup>9</sup>



*Fig. 2*



*Fig. 3.*

Witnesses:  
Hände Gmiller.  
Oalter Bowman.

Inventor:  
Joseph S. Sourek,  
By C. E. Humphrey,  
Atty.



# UNITED STATES PATENT OFFICE.

JOSEPH S. SOUREK, OF GHENT, OHIO.

## BUCKLE.

SPECIFICATION forming part of Letters Patent No. 740,706, dated October 6, 1903.

Application filed November 21, 1902. Serial No. 132,245. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH S. SOUREK, a citizen of the United States, residing at Ghent, in the township of Bath, in the county of Summit and State of Ohio, have invented a certain new and useful Improvement in Buckles, of which the following is a complete specification.

My invention has relation to buckles; and it has especial relation to buckles for use in connecting the ends of conveyer-belts used on harvesters, binders, &c.

The object of my invention is to provide an improved buckle which can be readily manufactured and which will be so effective in operation as to prevent absolutely any material held by the buckle from slipping and yet be of such construction as to be readily detachable from connection with a belt on which it is used, and generally to produce a simple, effective, and economically-made buckle.

To the accomplishment of the aforesaid objects my invention consists in the peculiar and novel construction, arrangement, and combination of parts hereinafter described and then specifically claimed, reference being had to the accompanying drawings, forming a part hereof.

In the accompanying drawings, in which similar reference-numerals indicate like parts in the different figures, Figure 1 is a plan of my improved buckle. Fig. 2 is a section at the dotted line *x* in the direction of the arrow of Fig. 1. Fig. 3 is a modified form of the invention as disclosed in Fig. 2.

In the drawings the main body portion of the buckle consists of two end plates 1 2, united by three rods 3, 4, and 5.

The rods 3 4 are preferably inclosed by loose revoluble sleeves 10 to constitute rollers for the easy movement of the belt through the buckle.

The side plates 1 and 2 and the rollers 3, 4, and 5 may all be made integral or separately, as experience may deem best. Arranged to work in conjunction with this body of the buckle is a tongue 6, having a serrated front working edge, back of which is an upwardly-extending lip 7 to surround and grasp the rod 5. Back of this lip 7 the tongue is formed into substantially a square-sided loop 8, across the end of which extends an integral

bar 9, around which the fastened end of the belt is placed. The rearward portion 8 of the tongue is bent downwardly below the central line of draft of the belt 11, so that when a strain is placed on the belt 11 its constant tendency is to force down the serrated front edge of the tongue upon the sleeve inclosing the bar 4 and to rest there normally.

In operation a belt (suggested by dotted lines in the drawings) is passed from below around the sleeve 10 on the rod 4 and over the sleeve on the bar 3 and the serrated front edge of the tongue is placed against the belt, and as the belt is tightened it draws the tongue downward onto the sleeve on the roller 4 and its points enter the belt and hold it firmly in position. The tongue itself is capable of being detached from the body of the buckle by raising the serrated front edge upward and pushing it out enough to disengage the back-turned lip 7 from engagement with the rod or cross-bar 5. Then it is drawn downward out of engagement with the body of the buckle.

The object of making this buckle in two pieces is to simplify its construction and permit the ready separation in case of repairs or for any reason. Should it be desired to permanently retain the tongue in the body of the buckle, the rearwardly-extending lip 7 is struck a few blows with a hammer to bend it around the bar 5.

What I claim, and desire to secure by Letters Patent, is—

1. The combination in a buckle of side frames, two cross-bars connecting said side frames, each provided with an inclosing revoluble sleeve, a tongue detachably connected with a third cross-bar in said frame arranged when swung in one direction to rest on one of said revoluble sleeves and to engage a belt at a point situated between said revoluble sleeves, substantially as shown and described.

2. The combination in a buckle, of a frame consisting of two side pieces, cross-bars extending between said side pieces, revoluble sleeves around said cross-bars, a third cross-bar between said side pieces, a tongue detachably connected with said third cross-bar capable of swinging thereon, and resting its front working edge on one of said revoluble sleeves, and arranged to engage a belt be-



tween said revoluble sleeves with a rearwardly-extending loop, offset from the main line of said buckle, substantially as shown and described.

5 3. The combination in a buckle of frames provided with a plurality of cross-bars connecting said side frames, a detachably-swinging tongue on one of said cross-bars provided with an offset loop capable of connection with  
10 a belt, substantially as shown and described.

4. A buckle consisting of side frames connected with a plurality of cross-bars, revoluble sleeves on two of the cross-bars, a swinging tongue on another of said cross-bars capable  
15 of engaging a belt between said revoluble sleeves, said tongue being provided with a rearwardly-extending offset loop arranged to be connected with a belt, substantially as shown and described.

20 5. An improved buckle consisting of two side frames, two cross-bars extending between said side frames, revoluble sleeves on said cross-bars, a third cross-bar extending between said frames, a swinging tongue mounted  
25 on said third cross-bar provided with a front edge capable of engaging a belt or similar article adapted to swing and encounter

one of said sleeves and engage a belt passing over said sleeves, a rearwardly-extending portion on said tongue provided with a device  
30 capable of forming a connection with a belt or its equivalent, substantially as shown and described.

6. The combination in a buckle of side frames, two cross-bars connecting said side  
35 frames, each provided with an inclosing revoluble sleeve, a tongue detachably mounted between said side frames arranged when swung in one direction to rest on one of said revoluble sleeves and to engage a belt at a point  
40 situated between said revoluble sleeves, a rearwardly-extending portion on said tongue offset from the main line of said buckle provided with means for connection with a belt  
45 or its equivalent, substantially as shown and described.

In testimony that I claim the above I hereunto set my hand in the presence of two subscribing witnesses.

JOSEPH S. SOUREK.

In presence of—

C. E. HUMPHREY,  
MAUD ZWISLER.