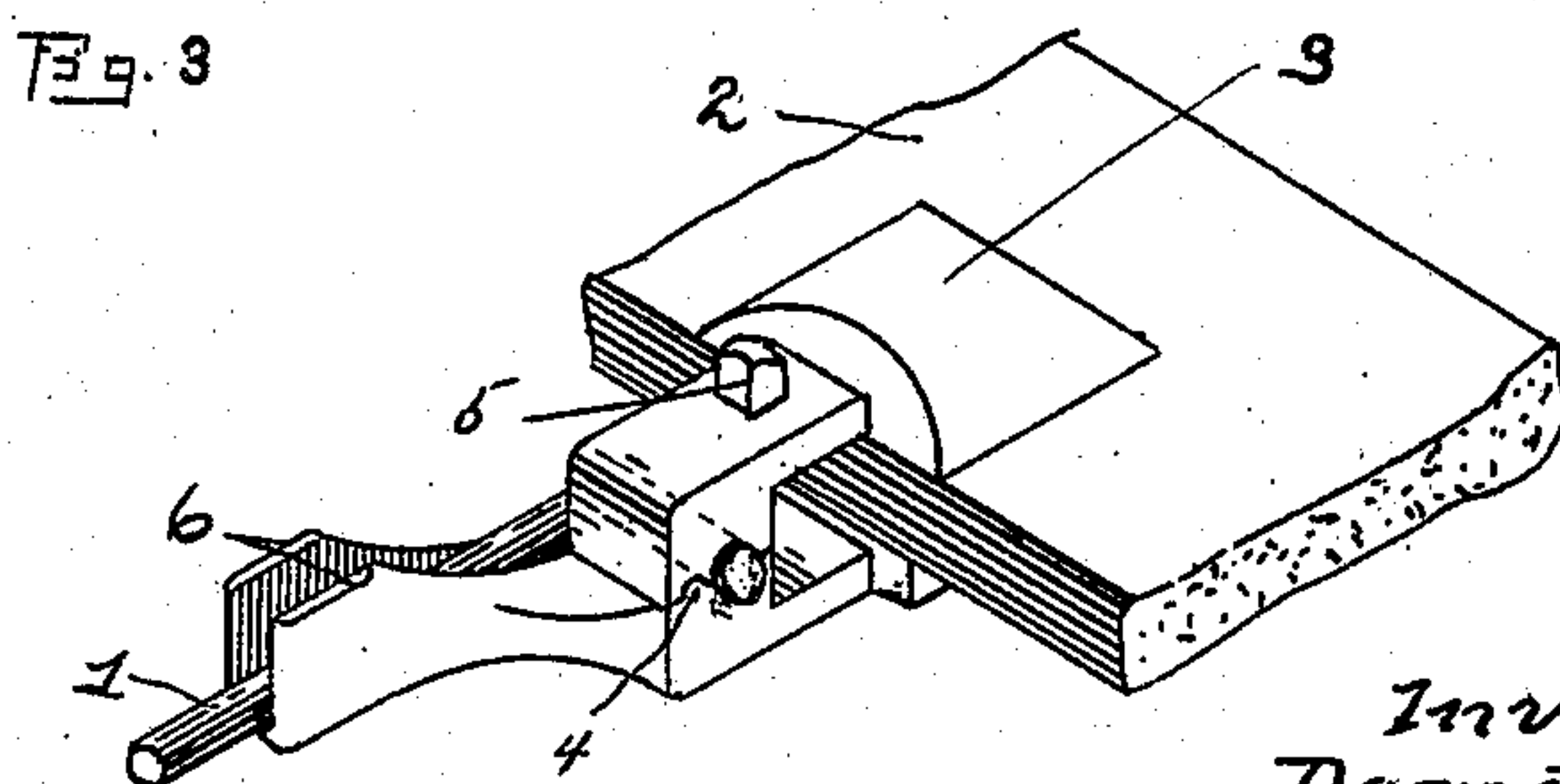
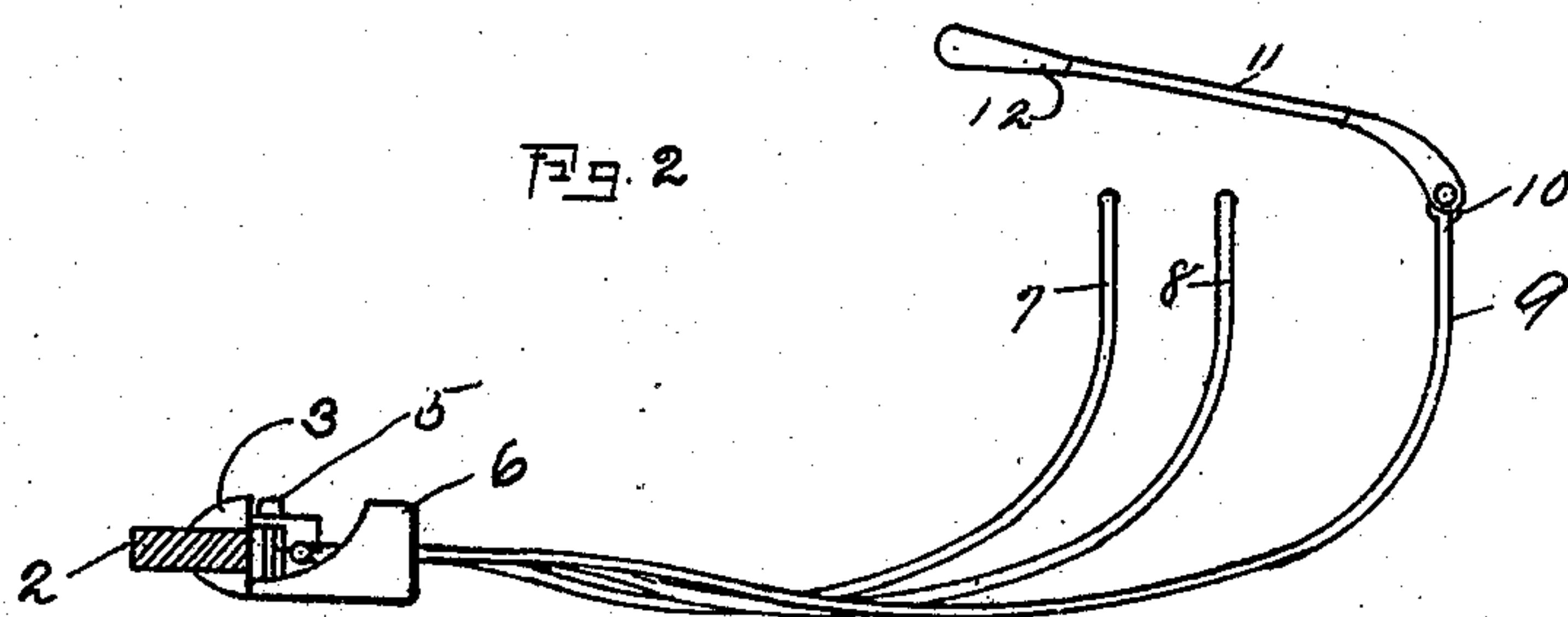
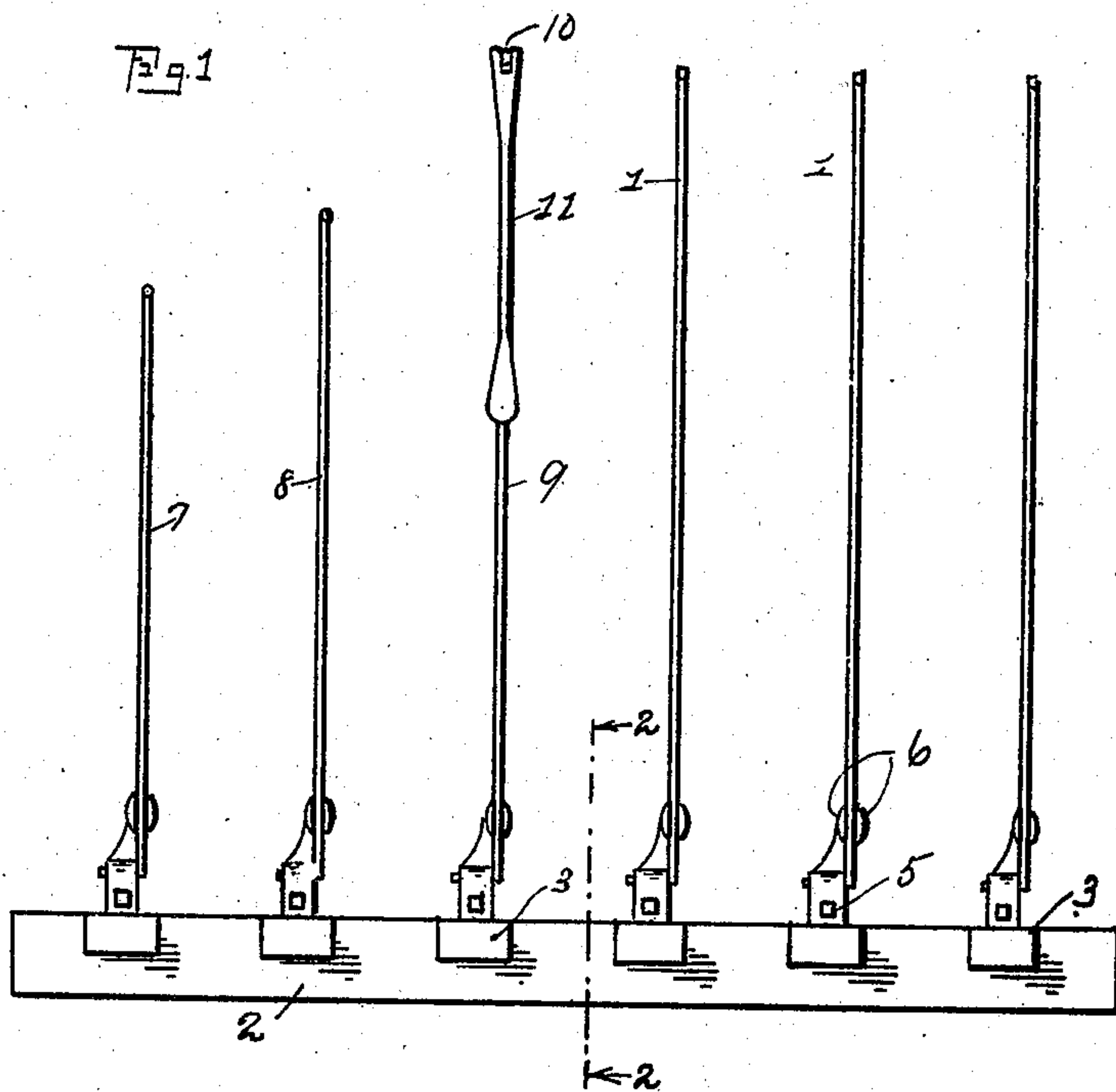


No. 848,071.

PATENTED MAR. 26, 1907.

D. TOLTON & G. F. CONNER.  
BUNCHER FOR PEA HARVESTERS.  
APPLICATION FILED NOV. 24, 1905.



Witnesses  
E. J. Moak  
Attorney

Inventors:  
David Tolton  
George F. Conner  
By Clement K. Stickney  
Attorney



# UNITED STATES PATENT OFFICE.

DAVID TOLTON, OF GUELPH, ONTARIO, CANADA, AND GEORGE F. CONNER,  
OF PORT HURON, MICHIGAN.

## BUNCHER FOR PEA-HARVESTERS.

No. 848,071.

Specification of Letters Patent.

Patented March 26, 1907.

Original application filed February 7, 1905, Serial No. 244,526. Divided and this application filed November 24, 1905.  
Serial No. 288,938.

*To all whom it may concern:*

Be it known that we, DAVID TOLTON, a subject of the King of England, and a resident of the city of Guelph, Province of Ontario, and Dominion of Canada, and GEORGE F. CONNER, a citizen of the United States of America, and a resident of the city of Port Huron, county of St. Clair, and State of Michigan, have invented certain new and useful Improvements in Bunchers for Pea-Harvesters, of which the following is a full, clear, and exact specification.

This invention relates to an attachment for the cutter-bar of a mowing-machine whereby pea-vines which have been lifted and severed by the aid of other attachments, as set forth in our application filed February 7, 1905, Serial No. 244,526, for pea-harvesters, of which this is a divisional application, are rolled into compact bundles and discharged from the machine.

The invention consists in the matters hereinafter set forth, and more particularly pointed out in the appended claims.

In the drawings, Figure 1 is a plan view of a mowing-machine cutter-bar with the guard-fingers and knives removed to render the sketch more clear, provided with a bunching device embodying the principal features of the invention. Fig. 2 is an end view of the buncher taken at section-line 2 2 of Fig. 1. Fig. 3 is an enlarged isometric view of a finger-clamp.

Referring to the drawings, 1 represents a plurality of gathering-rods, preferably of steel and cylindrical in section, which are adapted to trail on the ground behind the cutter-bar 2, to which they are secured independently in parallel space relation each by a clamp 3 or clip, whose forward ends or jaws grip the cutter-bar. The opposing faces of the rear portion of the clip are preferably adapted to form a bearing or horizontal aperture when closed against each other, in which the end of the finger or rod, which is turned at right angles to form a pivot-pin, is inserted, although this bearing may obviously be formed in either of the sections of the clip.

Where the aperture is formed between the sections, as herein illustrated, their meeting faces are roughened or provided with a rib 4 and counter-depression to prevent the slip-

ping of the parts and consequent binding on the finger or rod, which would impede its free vibration. A set-screw 5 holds the clip in engagement with the cutter-bar by clamping the two jaws down upon it. The lower member of the clip is herein shown as provided with a horizontal lug having keepers 6, between which the rod 1 lies when in its normal position. Obviously the keepers or similar device may be arranged in any manner which will maintain the rod in its bearing when in operative position and admit of its withdrawal when turned above the cutter-bar without disturbing or loosening the clip. The outer ends of the three or more inner rods or of those which are secured near to the heel of the cutter-bar are upturned in the same plane to form a retaining-pocket. The ends of the two outer fingers 7 and 8 are likewise upturned, but in the manner indicated, so as to retain and roll the vines inwardly toward the heel of the cutter-bar. The intermediate bar 9 is bent so that its upturned end lies slightly in the rear of the inner rods, and its extremity is turned upon itself to form an eyelet or hinge 10, in which one end of a substantially horizontal presser-bar 11 is pivoted so as to be vertically vibratable. The hinge end of the bar 11 is formed so as to present a smooth surface on the inner side which does not catch the vines and is provided with a stop which prevents the dropping of the bar below its normal position. The outer end of the bar is loaded as with a suitably-formed weight 12. Obviously this presser-bar may be of any design which will accomplish the work of compressing the roll of vines into a compact bundle, its outer end being forked or provided with lateral extensions or otherwise adapted for varying conditions of service. The outer weight may be made to slide on the rod to give different results or the hinge of the presser-bar may have a spring for accomplishing the same object.

In operation the disposition of the parts as herein illustrated causes the severed vines to be rolled into compact bundles which gradually pass over the inner rod and detach themselves from the rest of the vines, so that they are discharged at suitable intervals behind the machine. The distance between the inner and outer extremities of the inner and



outer fingers is regulated by experiment, so that the device acts automatically to bundle and discharge the vines.

Obviously while certain specific forms of construction have been shown herein, these may be varied without departing from the spirit of the invention, and we do not limit ourselves to any particular design or arrangement of parts except as set forth in certain of the appended claims.

We claim as our invention—

1. In a pea-harvester, the combination with the cutter-bar, of vine-gathering rods, an individual clamp for each rod gripping the cutter-bar, and a vertically-vibratable compressor-bar pivoted to the outer end of one of the rods.

2. The combination with the cutter-bar of a mowing-machine of vine-bunching attachments comprising a plurality of spaced clamps adjustably secured to the cutter-bar, a plurality of parallel rods trailing behind the cutter-bar, each pivotally secured in one of said clamps, and having upturned outer ends, and a vertically-vibratable compressor-bar pivoted to the outer end of one of the intermediate rods.

3. The combination with the cutter-bar of a mowing-machine of vine-bunching attachments comprising a plurality of clamps adjustably secured at regular intervals to the cutter-bar, a plurality of parallel rods trailing behind the cutter-bar, pivoted in said

clamps, the outer ends of the rods near the inner end of the cutter-bar being upturned in a plane parallel to the cutter-bar and the upturned ends of the two outer rods being stepped nearer the cutter-bar, and a vertically-vibratable presser-bar pivoted to the outer end of one of the intermediate, longer rods.

4. The combination with the cutter-bar of a mowing-machine of vine-bunching attachments, comprising a plurality of clamps adjustably and detachably secured at intervals to the rear margin of the cutter-bar, a plurality of rods trailing behind the cutter-bar, each removably pivoted at its forward end in one of said clamps, the rear ends of the rods near the machine end of the cutter-bar being upturned in a plane parallel to the cutter-bar, and the rear ends of the two rods near the outer end of the cutter-bar being stepped nearer to the cutter-bar, and a presser-bar hinged at its rear end to the upturned end of one of the intermediate, longer rods, having a weighted forward end vertically vibratable in the plane of and above said rod.

In witness whereof we have hereunto set our hands in the presence of the subscribing witnesses.

DAVID TOLTON.

GEORGE F. CONNER.

Witnesses:

W. E. BUCKINGHAM,  
S. McCRAE.