

No. 648,282.

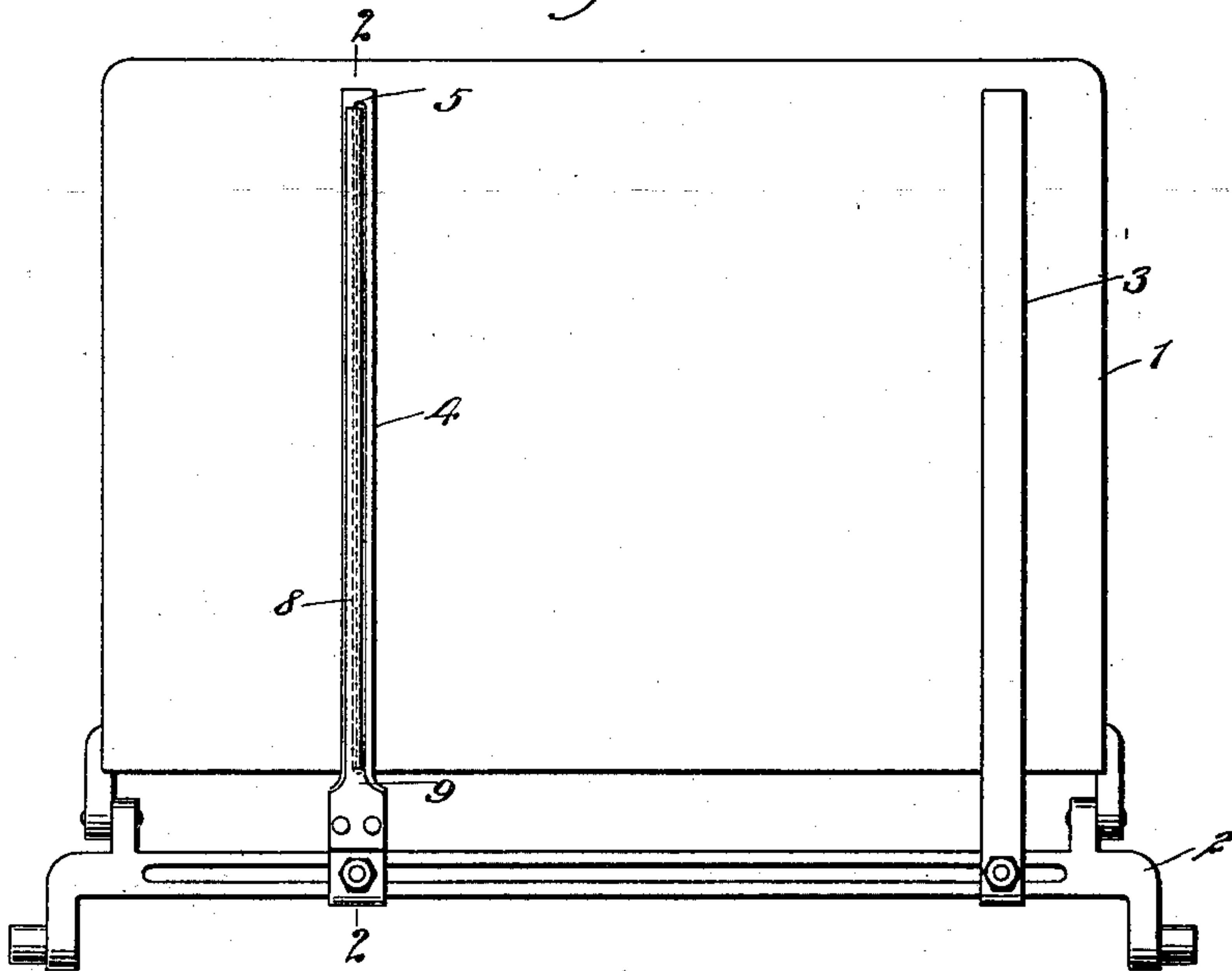
Patented Apr. 24, 1900.

J. F. McNAMARA.  
PERFORATOR.

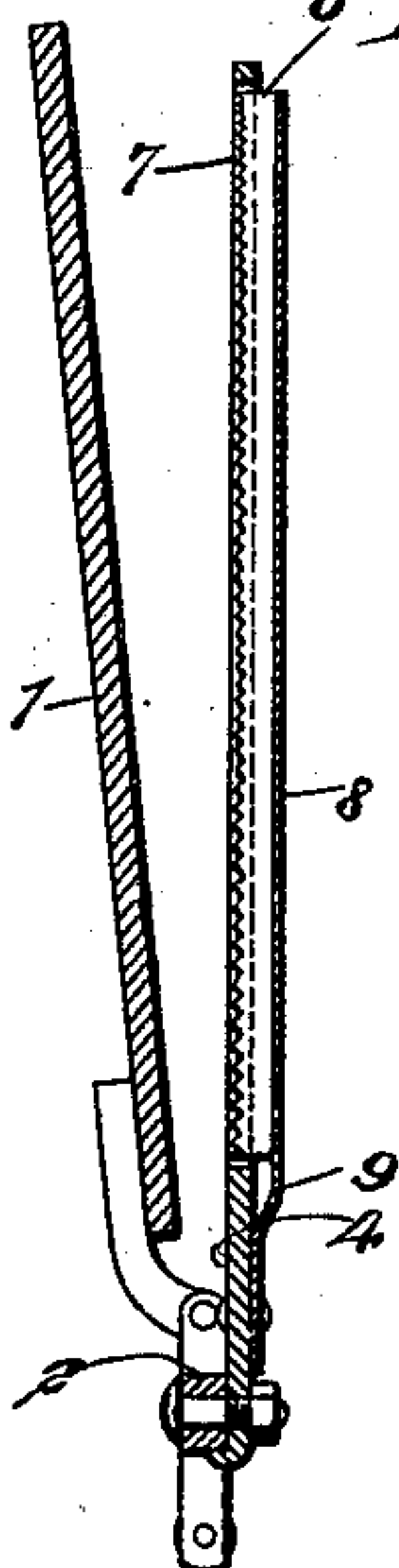
(Application filed Dec. 6, 1899.)

(No Model.)

*Fig. 1.*



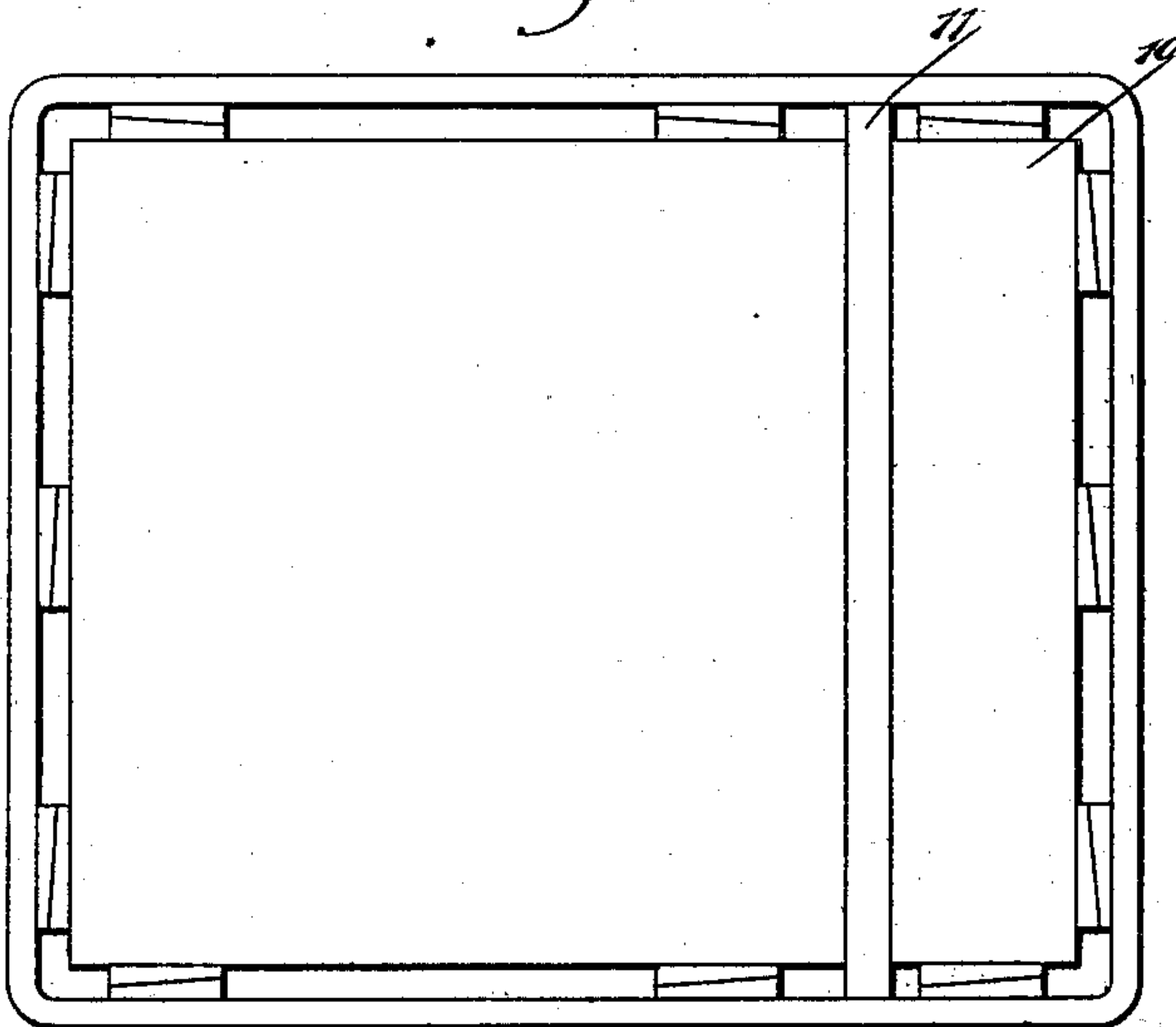
*Fig. 2.*



WITNESSES:

*Edward Thorpe*  
*C. R. Ferguson*

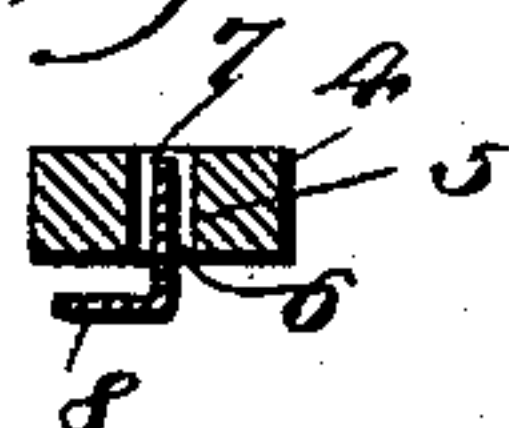
*Fig. 3.*



INVENTOR

*James F. McNamara*  
BY *Munn*  
ATTORNEYS

*Fig. 4.*



# UNITED STATES PATENT OFFICE.

JAMES F. McNAMARA, OF NEW YORK, N. Y.

## PERFORATOR.

SPECIFICATION forming part of Letters Patent No. 648,282, dated April 24, 1900.

Application filed December 6, 1899. Serial No. 739,374. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES F. McNAMARA, a citizen of the United States, and a resident of the city of New York, (Far Rockaway,) borough of Queens, in the county of Queens and State of New York, have invented a new and Improved Perforator, of which the following is a full, clear, and exact description.

This invention relates to devices for perforating paper—such, for instance, as the line between the stub and body portion of a bank-check or other paper; and the object is to provide a device of this character that shall be very simple in its construction and operated to perforate paper by movements of the press while making impressions.

I will describe a perforator embodying my invention, and then point out the novel features in the appended claim.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a top view of a printing-press platen, showing a perforating device embodying my invention as applied thereto. Fig. 2 is a section on the line 2 2 of Fig. 1. Fig. 3 shows a printing-form with an inserted strip for engaging the perforator, and Fig. 4 is a cross-section of the perforator.

Referring to the drawings, 1 designates the platen of a printing-press, mounted to swing on a rock-bar 2, attached to the frame of the press in the ordinary manner. Adjustable longitudinally of the rock-bar 2 are the tympan 3 and 4. These are connected to the rock-bar by means of bolts passing through a slot in the said rock-bar, as plainly indicated in the drawings. The tympan 4 is longitudinally slotted, as at 5, and movable in this slot is the perforator, comprising a plate 6, having teeth 7 on one edge and connected at the other edge with an outer plate 8, which extends across one side of the tympan. The lower end of the plate 8 is connected to the tympan 4, the connection being in the form of a spring-plate 9, shown as a part of a continuation of the plate 8, which

will normally hold the teeth within the slot 5—that is, it will hold the perforator in such manner that the teeth 7 will not project beyond the upper side of the tympan until operated or pressed by the operation of the machine.

In the operation of the device the tympan 4 is to be placed in a position to properly perforate the paper being printed upon, and in setting up the form 10 a bar 11 should be inserted in the same in such position as to engage against the portion 8 of the perforator. This bar may be of wood or any other suitable material. When the paper to be printed upon is placed upon the platen in the usual manner and the press is operated, the said platen will move upward and will engage the paper with the under sides of the tympan, so that the tympan will move with the platen and paper toward the printing-form, and when they reach the same the portion 8 of the perforator by coming in contact with the bar 11 will force the perforating-teeth through the tympan 4 and also through the paper, thus forming the perforated separating-line between the stub and body portions of a check or the like. Of course when the pressure of the perforator on the bar 11 is relieved the spring action of the perforator will move it out of engagement with the paper, permitting the paper to be carried back with the platen in the usual manner.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

In a printing-press, a longitudinally-slotted tympan, and a perforating-plate movable in said slot and having an integral spring extension at one end secured to the tympan, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES F. McNAMARA.

Witnesses:

C. R. FERGUSON,

EVERARD BOLTON MARSHALL.