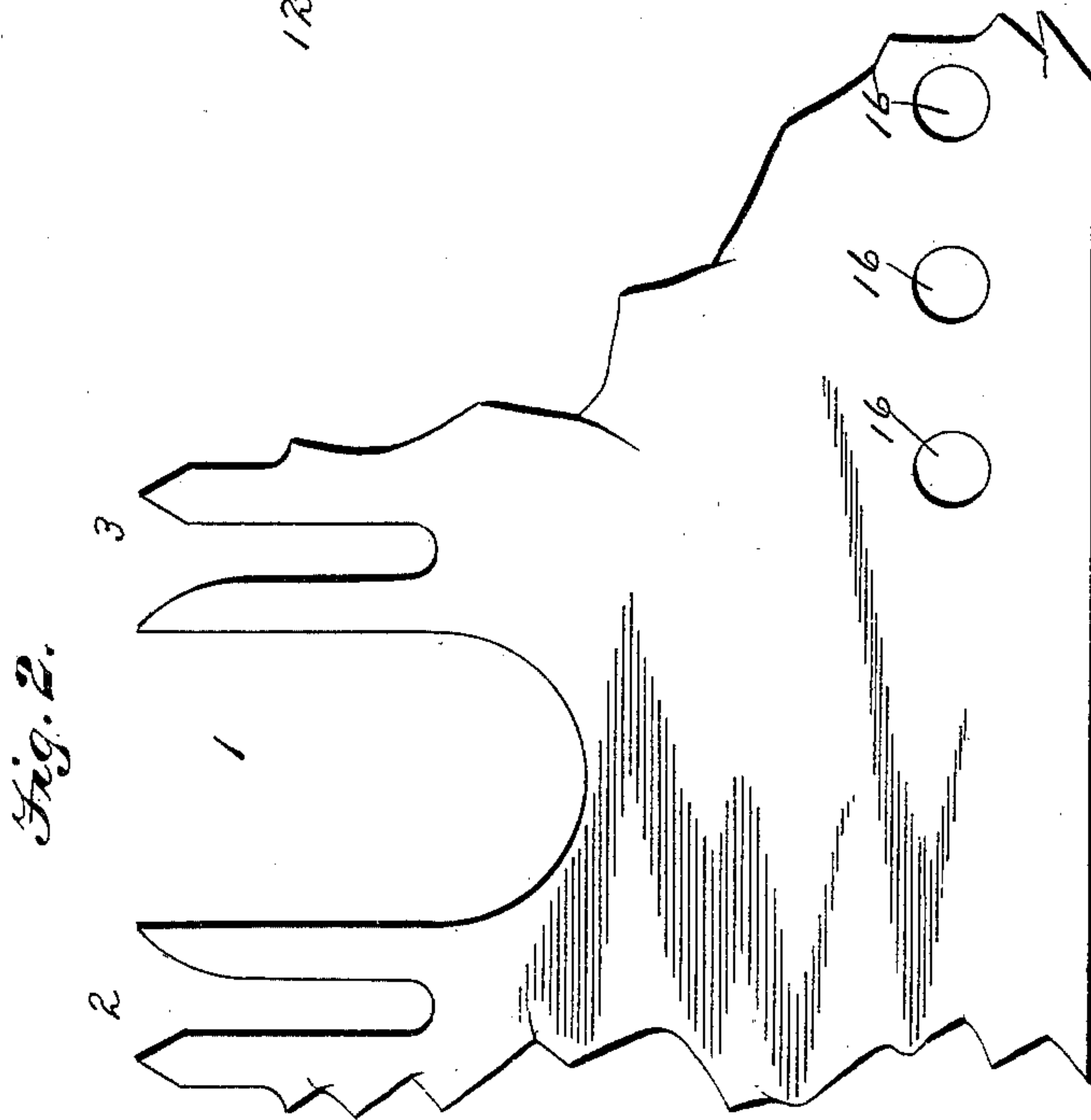
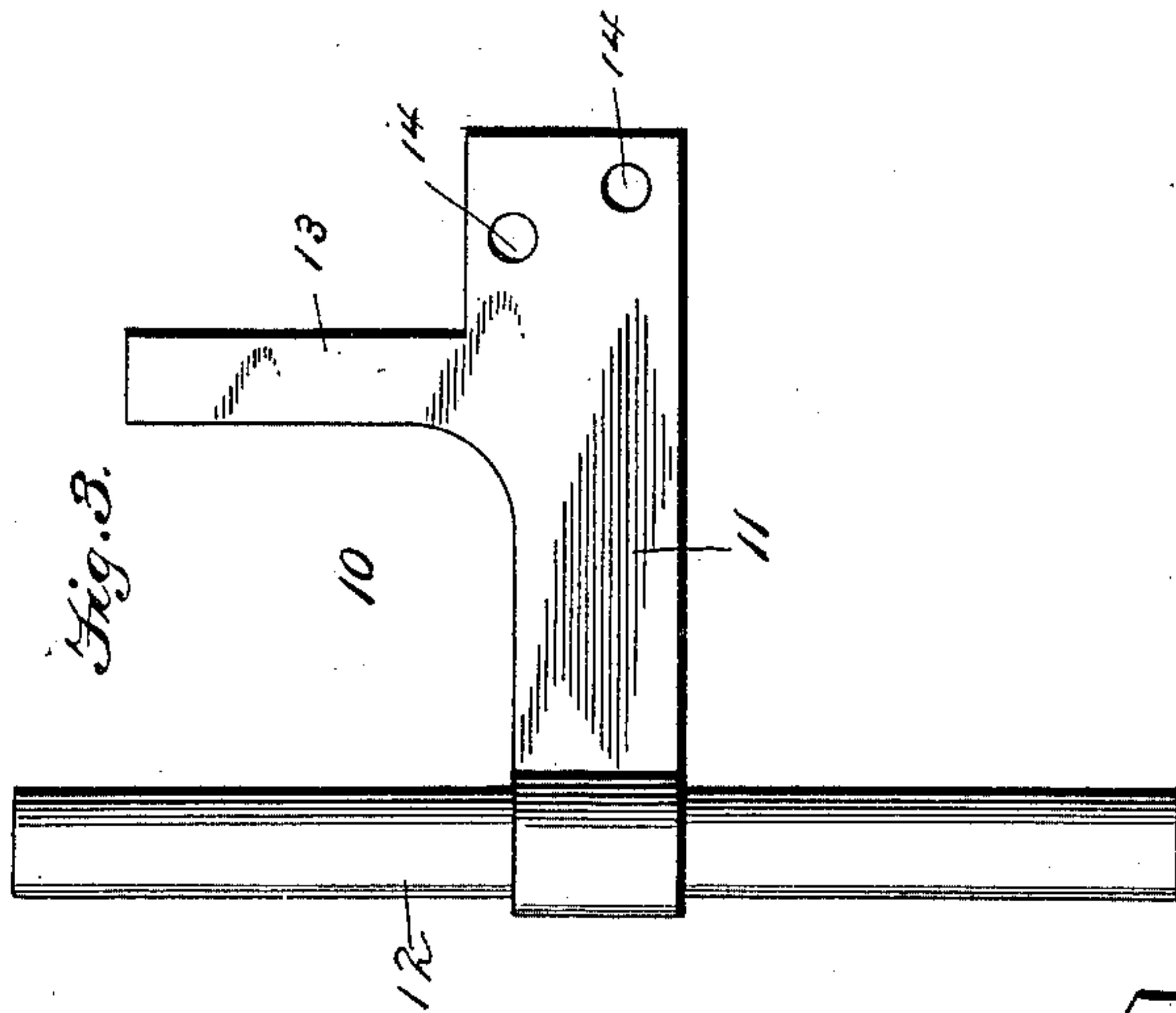
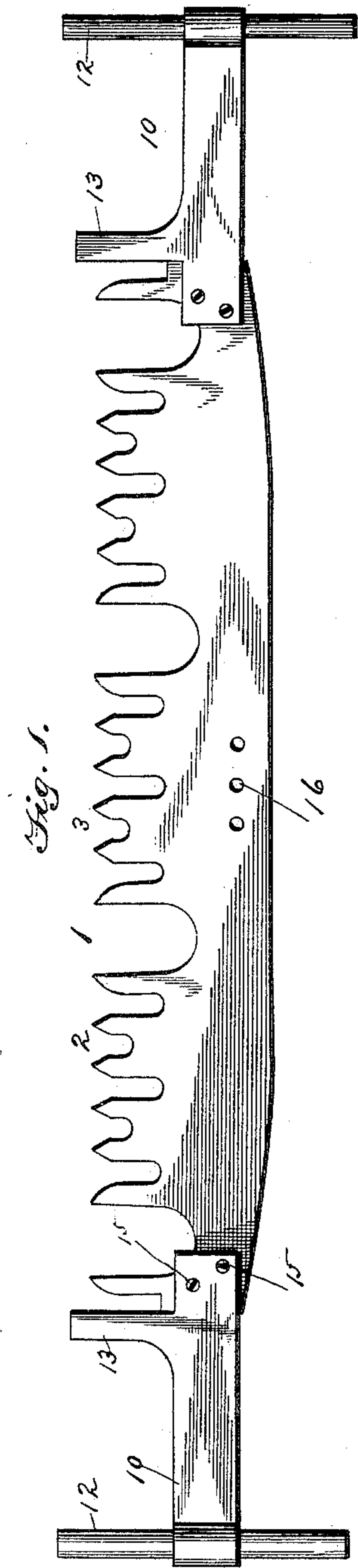


(No Model.)

W. KIDD.  
CROSSCUT SAW.

No. 462,768.

Patented Nov. 10, 1891.



Witnesses:

*W. H. Deane*  
*W. H. Deane*

Inventor:

*William Kidd*

By, his Attorneys.

*Edson Bros.*

# UNITED STATES PATENT OFFICE.

WILLIAM KIDD, OF FISHERMAN'S BAY, CALIFORNIA.

## CROSSCUT-SAW.

SPECIFICATION forming part of Letters Patent No. 462,768, dated November 10, 1891.

Application filed February 21, 1889. Serial No. 300,772. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM KIDD, a citizen of the United States, of Fisherman's Bay, in the county of Sonoma and State of California, have invented certain new and useful Improvements in Crosscut - Saws; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in crosscut-saws; and it has for its object to provide means for preventing the hand of sawyer or operator from striking the saw-teeth should the saw give a sudden jerk in the cut, which would be liable to disengage the hands of the sawyer from the handle; and, further, to provide means whereby the saw can be readily carried without danger of injury.

With these ends in view my invention consists in the peculiar construction and arrangements of parts, as will be hereinafter fully described, and particularly pointed out in the claims.

To enable others to understand my invention, I will now proceed to describe the same in connection with the accompanying drawings, in which—

Figure 1 is a side elevation of my improved crosscut-saw. Fig. 2 is an enlarged detail view of a part of the saw-blade, showing one of the raker-teeth and the transverse hand-hold apertures near the center of the blade Fig. 3 is an enlarged detail view of the handle.

Like numerals of reference denote corresponding parts in the several figures of the drawings.

1 designates the raker-teeth, and 2 3 are the cutting-teeth.

The handle 10 consists of a flat straight shank 11 and a head 12, arranged at right angles thereto at the outer ends of the same.

The handle is made or cast in a single piece of metal, and the shank thereof is provided with a guard 13, which is made integral with

the same. This guard is arranged near the opposite end of the shank from the head 12, and it projects from the shank at right angles to the length thereof and lies substantially parallel with one end of the head of the handle, but a short distance at one side thereof. The head and shank of the handle form a T, as shown in Fig. 3, and the inner end of the shank has two or more transverse apertures 14, through which are passed rivets, screws, or other suitable devices 15 for rigidly securing the handle to the saw-blade. The guard of the handle lies in front of and between the saw-teeth and cross-head of the handle, so as to prevent the hand of the operator from striking the saw-teeth should the hand become accidentally disengaged from the head of the handle by a sudden motion of the saw, as is sometimes the case.

To provide for readily carrying the saw in moving from one log to another without danger of cutting one's self in the event of stumbling or falling, I have provided the saw-blade with a series of three or more transverse apertures 16, which are arranged at the middle of the blade near the back edge thereof. It is obvious that the fingers can be readily passed through these apertures and the saw conveniently and easily carried without injury to the hand or danger of being cut by the saw.

The operation and advantages of my invention will be readily understood and appreciated by those skilled in the art from the foregoing description, taken in connection with the drawings.

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

1. In a crosscut-saw, a saw-blade having a series of transverse apertures 16 near the rear edge of the blade, at or near the middle thereof, for the purpose described, substantially as set forth.

2. In a crosscut-saw, a handle made of a single piece of metal and consisting of a straight shank 11 and a guard 13, which ex-

tends or projects beyond one edge of the shank at right angles thereto and is located on the same side of the shank as the teeth on the saw-blade, said shank being attached  
5 at its inner end to the saw-blade, and having a rigid cross-head at its outer end, which projects beyond the shank on both sides thereof, for the purpose described, substantially as set forth.

In testimony whereof I affix my signature in the presence of two witnesses.

WILLIAM <sup>his</sup> × KIDD.  
mark

Witnesses:

W. M. RICHARDSON,  
J. P. SMITH.