

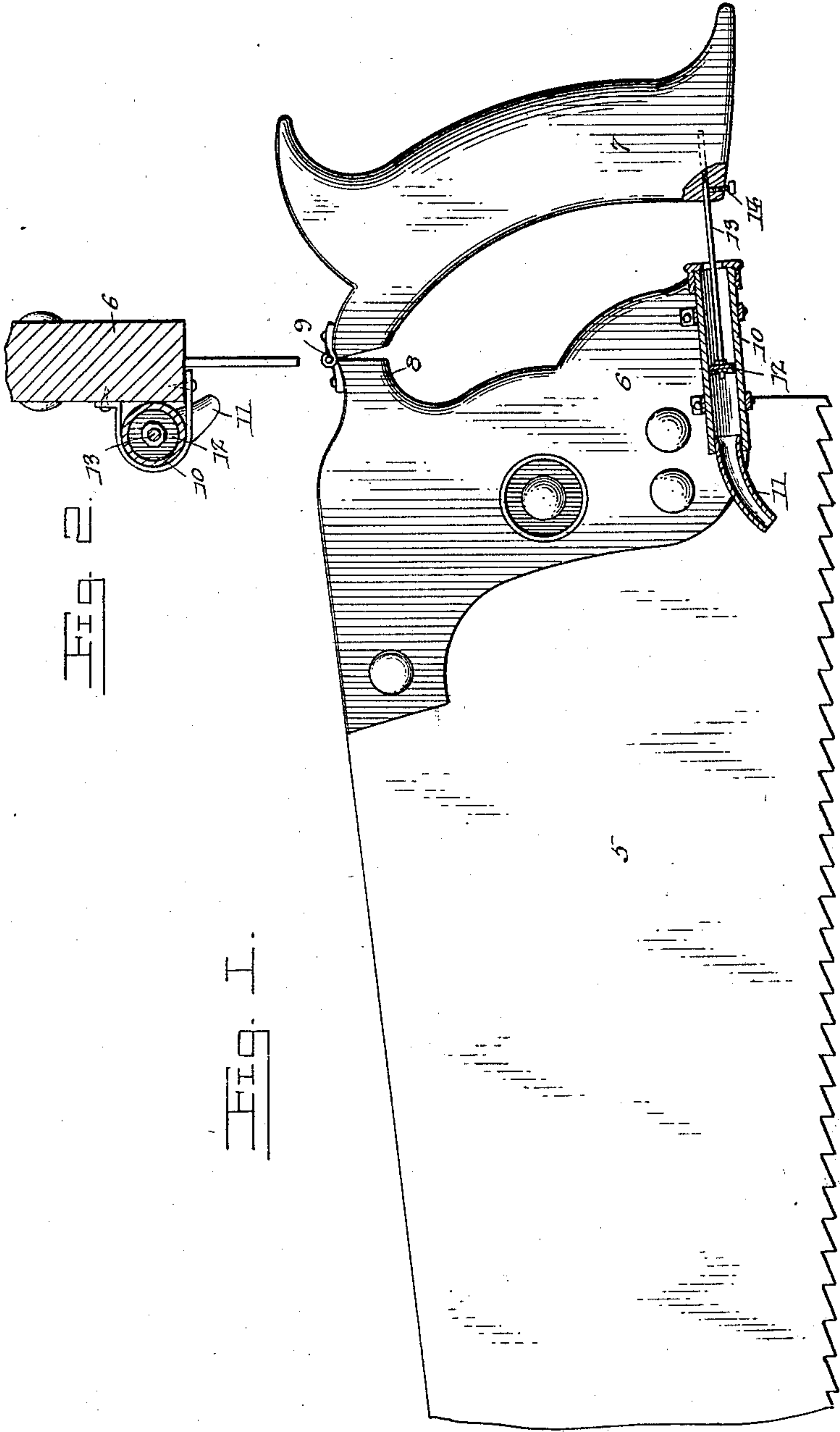
No. 671,488.

Patented Apr. 9, 1901.

E. A. MICHALSCHECK.  
HANDSAW ATTACHMENT.

(Application filed Feb. 8, 1901.)

(No Model.)



Witnesses

F. C. Alden.

Geor. Chandler.

by E. A. Michalscheck, Inventor.  
C. A. Snow & Co.  
Attorneys

# UNITED STATES PATENT OFFICE.

EMIL A. MICHALSCHECK, OF BIGSTONE, SOUTH DAKOTA.

## HANDSAW ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 671,488, dated April 9, 1901.

Application filed February 8, 1901. Serial No. 46,549. (No model.)

*To all whom it may concern:*

Be it known that I, EMIL A. MICHALSCHECK, a citizen of the United States, residing at Bigstone, in the county of Grant and State of South Dakota, have invented a new and useful Handsaw Attachment, of which the following is a specification.

This invention relates to handsaws; and it has for one object to provide a construction of handle and an attachment therefor wherewith the sawdust will be blown away during the sawing operation to clearly expose the line on which the sawing is to be done, a further object of the invention being to provide such a construction as will insure automatic operation of the blowing attachment.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a side elevation showing a portion of a handsaw and illustrating in section an air-pump attached thereto in position to discharge air over the teeth of the saw, at the handle end of the latter. Fig. 2 is a transverse sectional view through a portion of the saw-handle and through the barrel of the air-pump.

Referring now to the drawings, there is shown a handsaw, including a blade 5 and a handle, which latter includes a body portion 6, attached to the saw-blade in the usual manner, and a grip 7. The grip 7 is formed separate from the body of the handle and at its upper end—that is, the end adjacent to the back of the saw—it is hinged to a projecting lug 8 of the body 6 through the medium of a common form of hinge 9. Thus the grip may be freely moved with the lower end thereof in the plane of the blade and toward and away from the body of the handle.

Upon one side face of the body 6 of the handle, and at the lower end thereof adjacent to the blade 5, there is mounted rigidly the barrel 10 of an air-pump, said barrel being disposed slightly inclined, with its discharge end in the direction of the teeth of the saw, and at said discharge end of the pump there is connected a flexible discharge-pipe 11, of lead or similar material, which may be easily

bent to direct the discharge of air to the exact point desired.

In the barrel of the pump is a piston 12, having a rod 13, which leads from the rear end of the pump and is disposed in a recess in the grip 7 and in which it is held by means of a set-screw 14.

With this construction it will be seen that when the saw is pushed forwardly through the medium of the grip the piston or plunger is moved forwardly through the pump-barrel to discharge the air therefrom along the saw-blade and past the teeth thereof, so that the air will strike the material being sawed and on the line along which the saw is progressing, so that the sawdust will be blown away. When the saw is drawn in the opposite direction, the handle has initial lost motion, at which time the piston or plunger is drawn rearwardly through the pump-barrel to fill it with air ready for the next forward stroke. Thus as the saw is operated the pump-piston is reciprocated for the purpose designed.

It will be understood that in practice modifications of the specific construction shown may be made without departing from the spirit of the invention.

It will be noted that the pump-barrel is provided with a cap which acts as a stop for the piston and limits the outward-swinging movement of the grip 7, and by adjusting the piston-rod in the recess in the grip the throw of the plunger or piston may be varied, as understood, and the pivotal movement of the grip determined.

What is claimed is—

1. The combination with a saw having a handle including relatively-fixed and movable members, of a pump-barrel mounted upon one member of the handle, and a plunger for the barrel operatively connected with the other member of the handle.

2. The combination with a saw having a handle including a member fixed to the saw-blade and a member pivoted to the fixed member, of a pump-barrel mounted upon the fixed member and having a plunger operatively connected to the pivoted member.

3. The combination with a saw having a



handle including a member fixed to the blade  
and a grip member hinged at one end to the  
fixed member, of a pump-barrel mounted upon  
the fixed member with its discharge directed  
5 to the saw-teeth, and a plunger for the barrel  
and having operating connections with the  
free end of the grip member.

In testimony that I claim the foregoing as  
my own I have hereto affixed my signature in  
the presence of two witnesses.

EMIL A. MICHALSCHECK.

Witnesses:

JOHN MICHALSCHECK,  
ANTON MILLER.