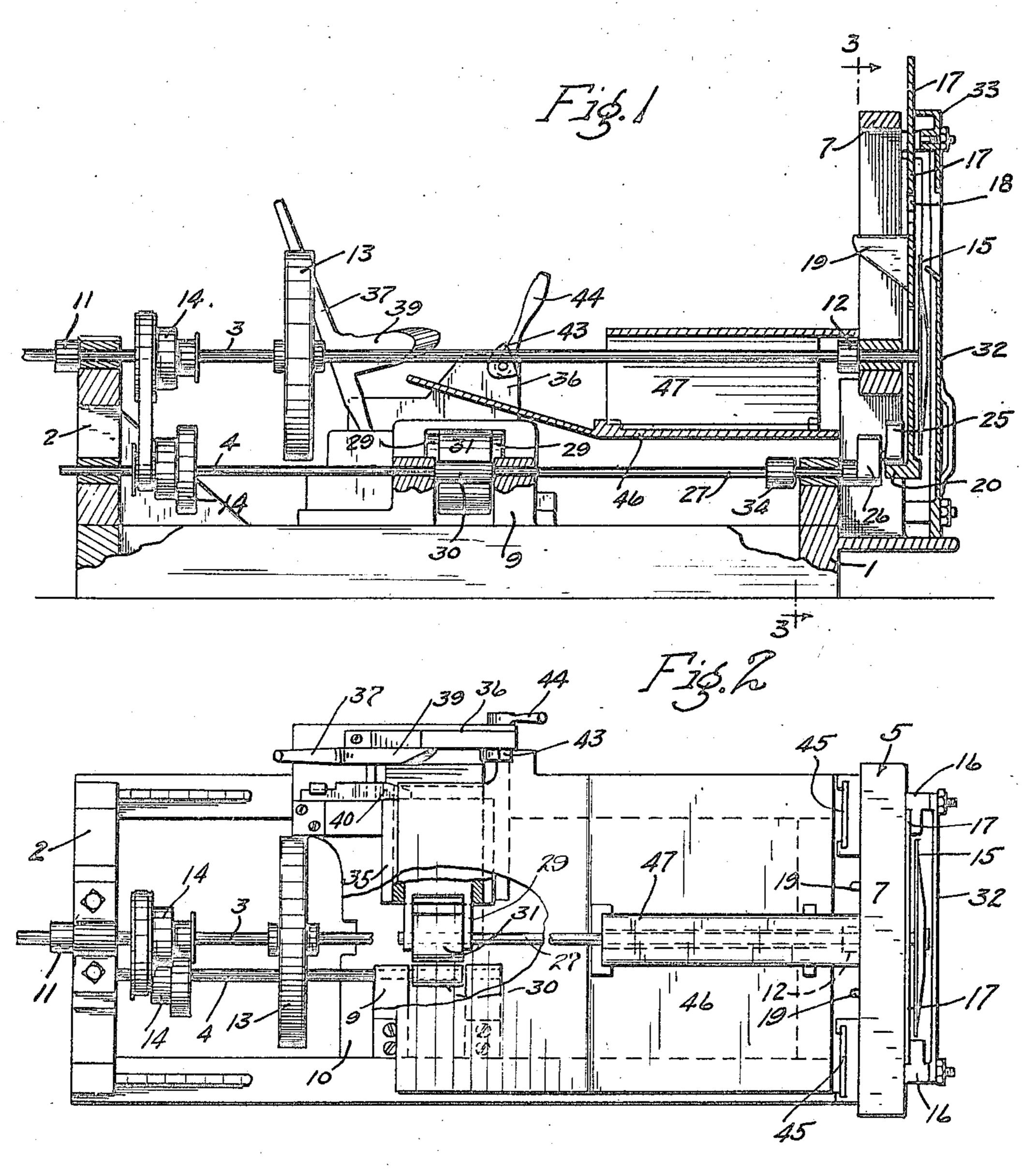
P. SOUCY.
JOINTER.
FILED JAN. 10, 1921.

2 SHEETS-SHEET 1.



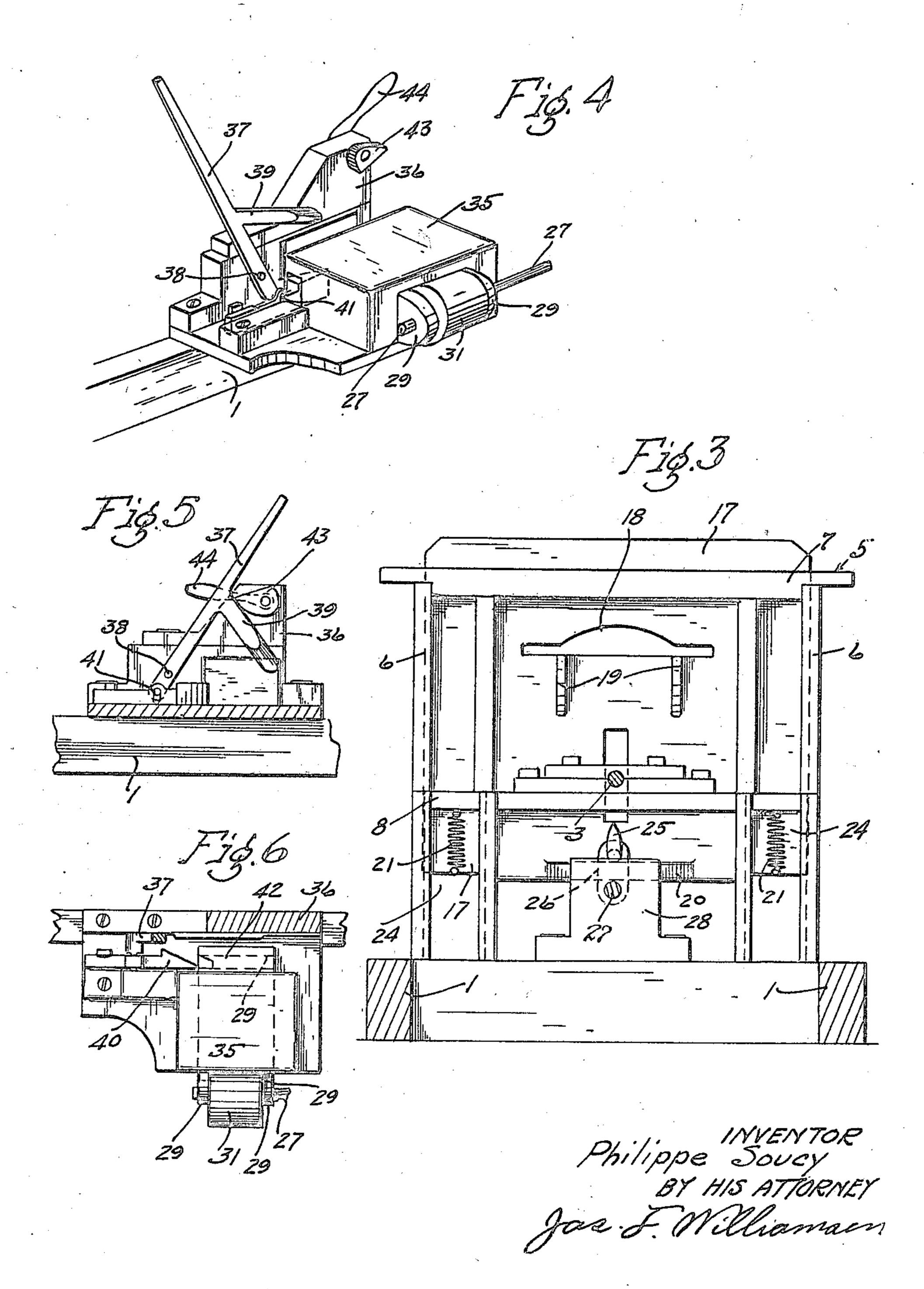
Philippe Soucy
BY HIS ATTORNEY
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2 SHEETS-SHEET 2.



OFFICE. UNITED STATES PATENT

PHILIPPE SOUCY, OF MINNEAPOLIS, MINNESOTA.

JOINTER.

Application filed January 10, 1921. Serial No. 436,141.

To all whom it may concern:

new and useful Improvements in Jointers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled 10 in the art to which it appertains to make and use the same.

This invention relates to a jointer, and particularly to that class of such machines used for the purpose of providing a perfect 15 joint in making of barrel heads. As is commonly known, the head of a barrel is made of flat slabs forming various shaped sections of a circle. These slabs are made from irregular shaped pieces of lumber and the 20 machine of the present invention is designed to cut the straight faces at each side thereof. The cut pieces are afterwards assembled members and end connecting members. At 75 and turned into circular shape.

25 upon the machine shown in the Patent No. 637,358, granted to applicant November 21st. 1899. In that machine, the cutting operation was controlled by a device operated by the foot of the operator. It has been found 30 in practice that this construction unnecessarily limits the speed of the operation.

It is an object of this invention, therefore. to so construct and operate the machine that the pieces can be cut with any desired speed frame 5. This front end frame, as shown 35 and as rapidly as the same can be presented in Fig. 3, comprises side members 6 and to the machine.

provide a machine in which the operator is in the lower bearing in the end frame 2 and not required to give any of his attention to is also provided with bearings formed in 40 controlling the movements of the machine, the pillow block or bracket 9 mounted on

struct a machine in which the material is mediate point thereof. The shaft 3 is propresented to the cutting element with a vided outside of the end frame 2 with a col-45 movement which is relatively slow at its be- lar 11, and adjacent the end frame 5 with ginning but which is accelerated toward the the coller 12, which collars hold the shaft final cutting end thereof.

to provide driving and controlling means 50 for the jointer which can be thrown into of step driving cones 14, the other of which and out of operation at will and which can also be locked in operative position.

disposed thereon in alignment with the one 105

Other objects and advantages of the in-mounted on shaft 3. At its front end, out-

vention will appear from the following de-Be it known that I, Philippe Soucy, a scription made in connection with the ac- 55 citizen of the United States, residing at companying drawings in which like refer-Minneapolis, in the county of Hennepin and ence characters refer to the same parts 5 State of Minnesota, have invented certain throughout the different views, and in which—

> Fig. 1 is a central longitudinal section of 60 the device;

Fig. 2 is a top plan view thereof; Fig. 3 is a section taken substantially on

the line 3—3 of Fig. 1 looking in the direction of the arrows;

Fig. 4 is a perspective view of the driving controller mechanism;

Fig. 5 is a view in side elevation of part of said controller mechanism; and

Fig. 6 is a top plan view of part of the 70 controlling mechanism.

Referring to the drawings, the machine is seen to comprise a base or supporting member 1 having longitudinal extending side the rear end of the base member, which is The present invention is an improvement left hand, as seen in Fig. 1, an end frame 2 is constructed of spaced side members and transversely extending members connecting the same, and said frame affords bearings 80 for two shafts extending longitudinally of the machine, one of which designated as 3. is supported in the upper bearing and extends throughout the length of the machine and is journaled at the front end of the same 85 in the bearing provided in the front end cross members 7 and 8. The other of the It is a further object of the invention to shafts which is designated as 4 is journaled 90 but merely presents the material thereto. a plate 10 which extends between the longi-Another object of the invention is to contudinal members of the frame 1 at an inter- 95 in position longitudinally. The main driv- 100 A still further object of the invention is ing pulley 13 is rigidly secured to the shaft 3 and said shaft also carries one of a pair is mounted on the shaft 4 and is reversely



1,441,038

5 when operating the machine.

In operation, power will be transmitted to the machine by a belt connected to pulley What is claimed is: engagement by manipulation of the lever 37. 10 The desired speed can be selected by manipu-15 17, this plate will be forced downwardly projecting ledge at its lower end and ro- 80 20 slowly at first, but will be gradually acceler-said slot will be moved against the saw and 85 ated as it approaches its limit of down-cut thereby. 25 is designed to be moved far enough down thereof, spaced end frame members, a re-90 30 casing 47. He will take the rough boards saw, and having a ledge projecting from its 95 35 smoothly and squarely cut or faced off by engaging said ledge and yielding means for 100 the saw 15. The operator will so place the moving said plate upwardly. slab that he will get the longest straight 3. A machine of the class described hav-40 of plate 17 and will be directed by the in- reciprocation adjacent the top side of said 105 45 does not have to use his hands or feet in means for moving said plate upwardly, ro- 110 50 however, not stop the rotation of the saw, roller carried thereby and a second friction 115 to drive the pulley 13 by the usual arrange- with said first roller to guide the same and ment of loose pulleys placed on a counter reciprocate said plate. shaft.

that applicant has produced an improved a plate mounted for reciprocation adjacent jointer and one in which the work can be thereto and having a transverse slot theredone at high speed, being limited only by in, yielding means for holding said plate

tively few and simple in construction and downwardly with a movement which is slow can be made quite rugged so that small at- at starting but which accelerates as the tention will be required to maintain the plate approaches its lower position. same in operation and repair. It will, of 5. A machine of the class described hav-65 course, be understood that various changes ing in combination a continuously rotating 130

tends at its front portion to the end frame. can be made in the form, details and ar-By means of the casing 45 and 46, the re-rangement of the device without departing volving parts are covered and a platform from the scope of applicant's invention, is provided upon which the operator stands which, generally stated, consists in the matter shown and described and set forth in 70 the appended claims.

13 and rollers 30 and 31 will be thrown into 1. A machine of the class described having in combination a continuously rotating circular saw, a reciprocating plate guided 75 lating the belt on stop cones 14, and it will for vertical movement adjacent thereto, said be seen that the crank 26 and eccentric 25 plate having a transverse slot therein adaptwill be constantly rotated. By engagement ed to be moved downwardly within the of member 25 with the ledge 20 of plate perimeter of the saw, said plate having a against the tension of the springs and will tating means comprising an eccentric enbe retracted upwardly again as the crank gaging said ledge to move the plate down-26 completes this rotation. It will be noted wardly, and yielding means for moving said that the plate 17 will be moved downwardly plate upwardly, whereby a board held in

ward movement. As used in practice, the 2. A machine of the class described havplate 17 is designed to have substantially ing in combination a base member, a conthree inches of movement and the slot 18 tinuously rotating circular saw at one end in front of the saw to produce a cut 20 ciprocating plate guided for vertical moveinches in length with a saw four feet in ment in said members, adjacent the said saw, diameter. The operator will stand upon the said plate having a slot therein adapted to casing 46 and may straddle and sit upon the be moved down within the perimeter of said or slabs and present the same into the slot lower end, means for moving said plate 18 when the plate 17 is in its upper po-downwardly, comprising a continuously rosition. The slab will then be moved down-tating shaft, a crank secured thereto and ward by the slot and the edge will be an eccentric member carried by said crank

edge possible from the stock. The piece ing in combination a continuously rotating cut from the slab will fall on the outside circular saw, a plate mounted for vertical turned end of plate 32 outside and to the saw having a slot therein extending transfront of the machine. The operator mere-versely of the plane of the saw, said plate ly picks up the slabs from one pile and being adapted to be moved downwardly throws or places them upon another. He within the perimeter of said saw, yielding the control of the machine. When it is tating means including an eccentric dog cardesired to stop the movement of the frame ried by a rotating crank for continuously 17, the lever 37 will be again manipulated engaging and regularly moving said plate to separate the rollers 30 and 31. This will, downwardly comprising a shaft, a friction and this will be stopped by discontinuing roller adapted to be moved into engagement

4. A machine of the class described hav-From the above description it is seen ing in combination a rotating circular saw, 120 the ability of the operator.

normally in its upper position, and a crank The parts of the machine are compara- carried eccentric dog for moving said plate 125

