A. H. BEGGS.

PORTABLE PLANING MACHINE.

APPLICATION FILED FEB. 9, 1918.

1,319,557.

Patented Oct. 21, 1919.

2 SHEETS—SHEET 1.

Fig. 1.

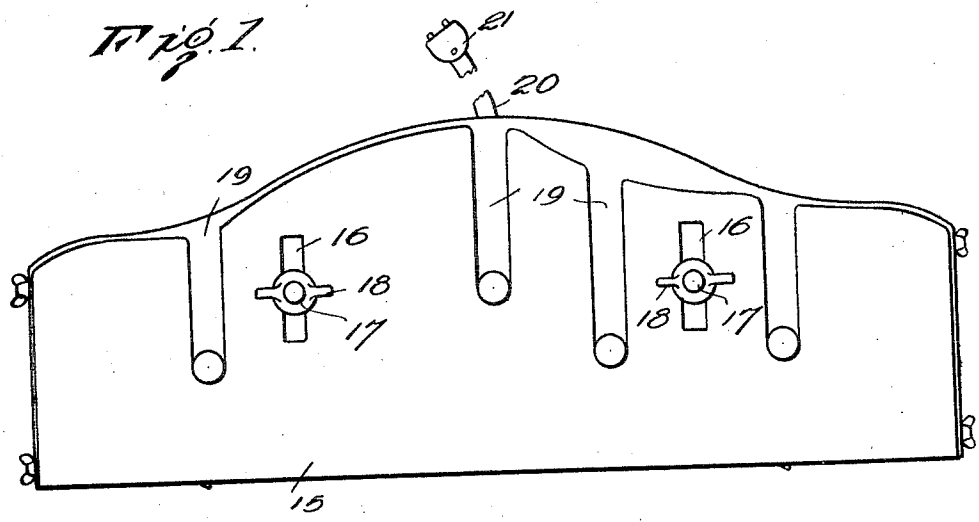
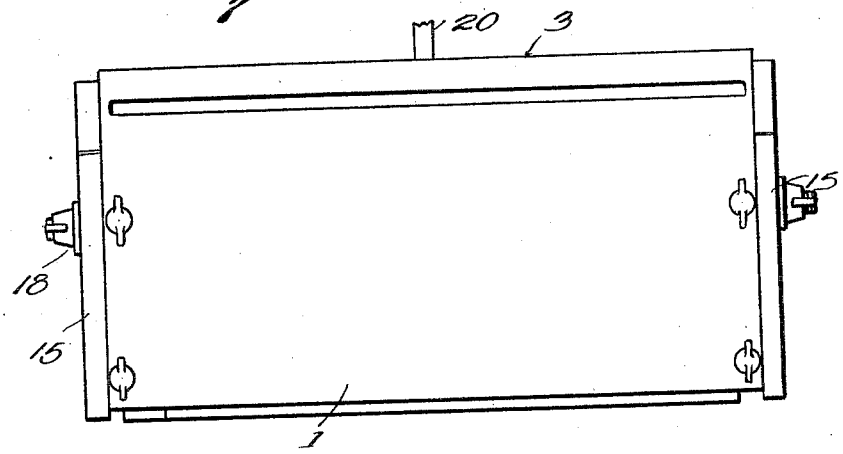


Fig. 2.



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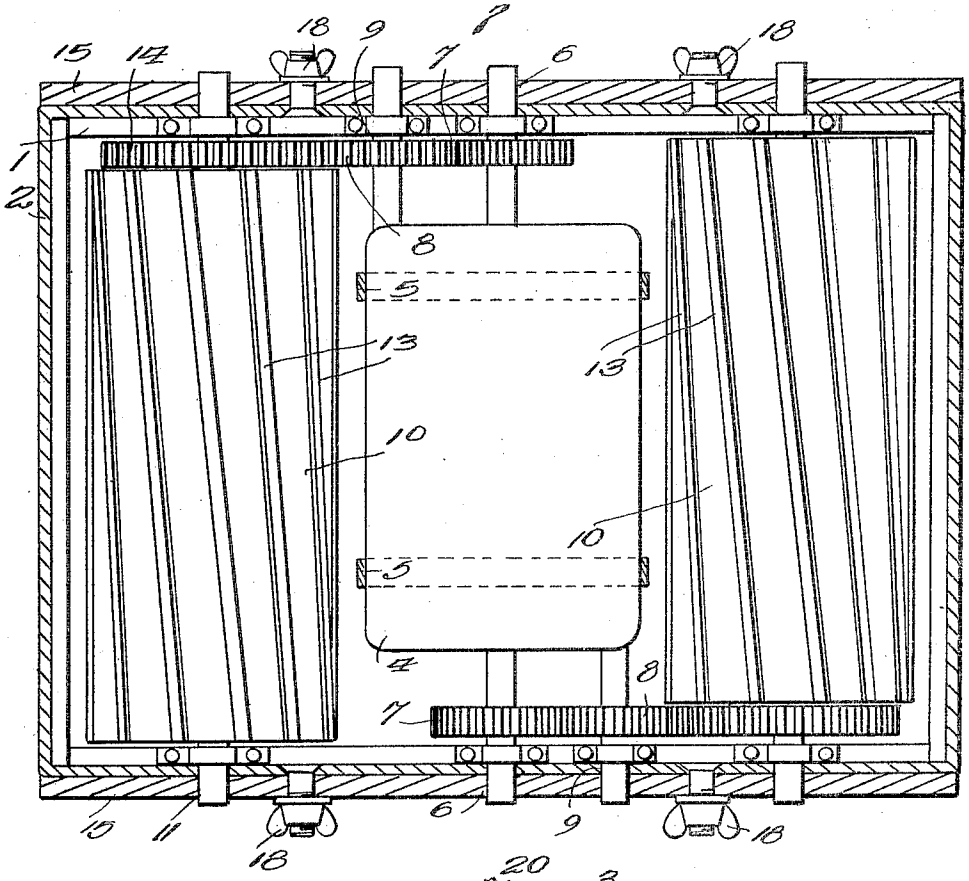
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2 SHEETS—SHEET 2.

Fig. 3.



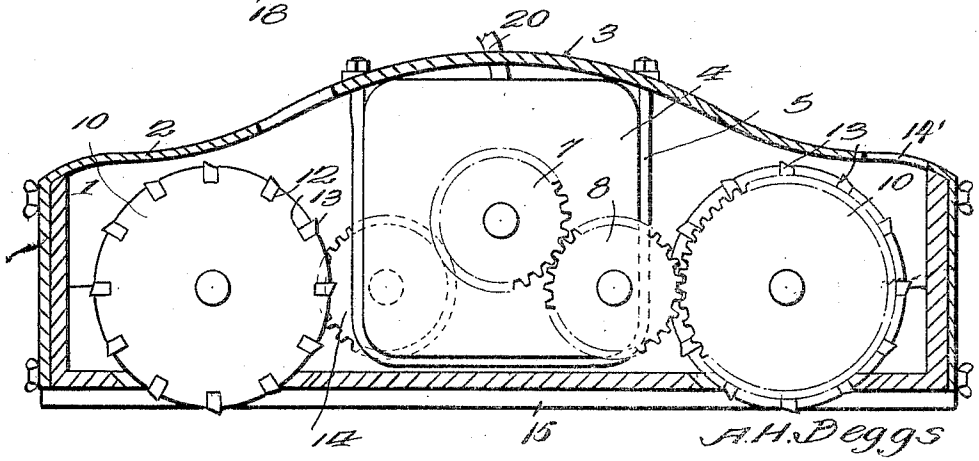


Fig. 4.

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UNITED STATES PATENT OFFICE.

ALEXANDER H. BEGGS, OF BUFFALO, NEW YORK.

PORTABLE PLANING-MACHINE.

1,319,557. Specification of Letters Patent. Patented Oct. 21, 1919.

Application filed February 9, 1918. Serial No. 216,243.

To all whom it may concern:

Be it known that I, ALEXANDER H. BEGGS, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Portable Planing-Machines, of which the following is a specification.

This invention has reference to improvements in portable planing machines and it is the principal object of the invention to provide a light, small and compact machine of this character which can be used for planing various work in a quick and economical manner, the construction of the machine being such as will enable a user to work effectually in confined or limited places.

The invention has for another object to provide the machine with a novel form of gage means, whereby the cutters thereof can be adjusted with relation to the work in a manner such as will permit cuts of predetermined depths or thickness.

In order that the invention and the manner of its application may be readily understood by those skilled in the art, I have in the accompanying illustrative drawings and in the detailed following description based thereon, set forth a preferred embodiment of the invention.

In the drawings:

Figure 1 is a side elevation of the improved planing machine,

Fig. 2 is an end elevation of the same,

Fig. 3 is a horizontal section through the machine, and

Fig. 4 is a vertical longitudinal section therethrough.

Having more particular reference to the drawings in connection with which like reference characters will designate corresponding parts throughout the several views, 1 represents the frame of the improved machine, the same being substantially rectangular in shape and having a housing 2 arranged thereover, which housing has the intermediate portion of the same enlarged to receive a motor or other source of motive power designated by the numeral 4, which as will be noted, is supported in the casing by means of substantially U-shaped brackets 5, the extremities of which are passed through the top portion of the housing 2 and connected thereto by means of locking nuts or similar fastenings.

As will be noted, the rotatable armature shaft of the motor 4 has its opposite ends extended and arranged in suitable bearings formed in the opposite sides of the frame 1 as at 6, which extended ends carry gears 7 thereon meshing with gears 8 also supported in bearings formed in the opposite sides of the frame 1 as at 9.

Rollers 10 are mounted in bearings formed in the opposite sides of the frame 1 as at 11 at points in proximity to the opposite side of the motor 4 and have diagonally disposed ways 12 formed therein for permitting the introduction of cutter blades 13, which cutter blades as will be understood, may be secured in the rollers 10 by any suitable manner common in the art. If desired, however, the cutter blades may be formed integral with the peripheral surfaces of the several rollers 10. Gears 14 are keyed to the bearing pintles adjacent certain of the ends of the rollers 10 and are constantly in mesh with the adjacent idler gears 8, thus permitting rotary motion to be transmitted from the motor 4 to the rollers.

As means for preventing the clogging of shavings in the housing 2 of the machine during a planing operation, portions of the housing may be removed as at 14', thus affording outlet means therefor.

Gage plates 15 are provided and have slots 16 formed therein in spaced relation for receiving the ends of screws 17 carried by the adjacent portions of the frame sides therethrough. Wing nuts 18 or similar locking means are turned into engagement with the extremities of the screws 17 and have bearing upon the gage plates, thereby affording efficient means for maintaining said gage plates in set or adjusted positions. Other slots 19 are formed in the gage plates and as will be noted, open onto the upper marginal portions thereof, thus providing means for receiving the adjacent bearing spindles of the gears and rollers and allow the necessary vertical adjustment of the gage plates.

An electrical conduit 20 is extended through a suitable opening formed in the enlarged portion 3 of the housing 2 into engagement with the terminals of the motor, while the remaining end of the same may be provided with a suitable connection such as indicated by the numeral 21 whereby current may be supplied to the motor 4. It

of course will be understood, that the cable or conduit 20 is of any desired length in order that the planing machine may be readily shifted or carried to different points by a user.

In operation, the gage plates 15 are properly adjusted upon the opposite sides of the machine to give a cut of the desired depth or thickness. whereupon the bottom of the machine having the cutting blades 13 projecting through the openings formed therein is engaged with the work to be planed. Due to the rotary motion of the cutting blades, it of course will be understood that the work will be effectually and rapidly planed. Furthermore, the machine may be moved over the entire surface of the work by the user.

If desired, the cutting blades 13 may be removed from the rollers 10 and sandpaper or other abrasive matter arranged over the peripheral surfaces of the same, thereby converting the machine into an effectual sandpapering or resurfacing means. It will be also understood, that one of the rollers 10 may be supplied with the cutting blades 13 while the remaining roller may be supplied with sandpaper, thus accomplishing the planing and sandpapering or refinishing operations in materially less time.

Manifestly, the construction shown is capable of considerable modification and such modification as is within the scope of my claim I consider within the spirit of my invention.

I claim:

In a portable planing machine, a rectangular housing having openings in the bottom thereof, cutting rollers disposed transversely of the housing and having their lower portions disposed partially through the openings in the bottom, trunnions extending from the ends of the rollers and journaled in and projecting through the side walls of the housing, motive means supported in the housing between the rollers and connected to the same, portions of the housing being removed at the top providing outlets for shavings, spaced screws projecting from opposite sides of the housing, gage plates having a horizontal series of vertical slots leading from the upper edges for disposition about the projecting portions of the trunnions and the screws so as to insure of a proper guiding of the plates during adjustment, and wing nuts adjustably engageable with the screws for clamping the plates in vertically adjusted positions against the opposite sides of the housing so that the lower portions of the plates will project the desired distance beyond the bottom of the housing to regulate the cutting action of the rollers.

In testimony whereof I affix my signature hereto.

ALEXANDER H. BEGGS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."