Sept. 20, 1955 K. E. NORBERG 2,718,246

FLOOR PLANING MACHINE

Filed March 8, 1954 2 Sheets-Sheet 1

FIG. 2

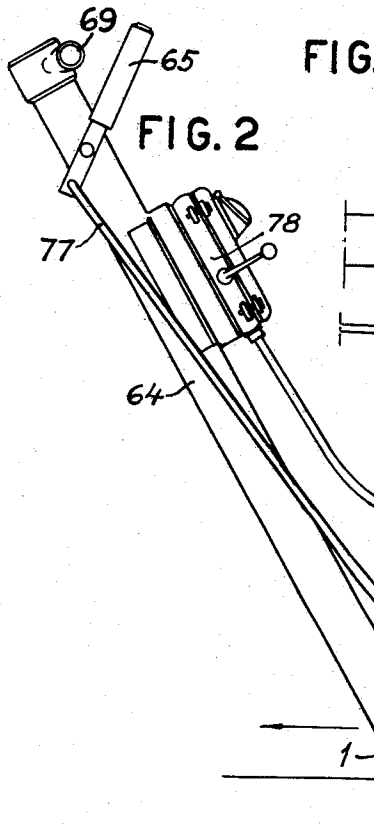
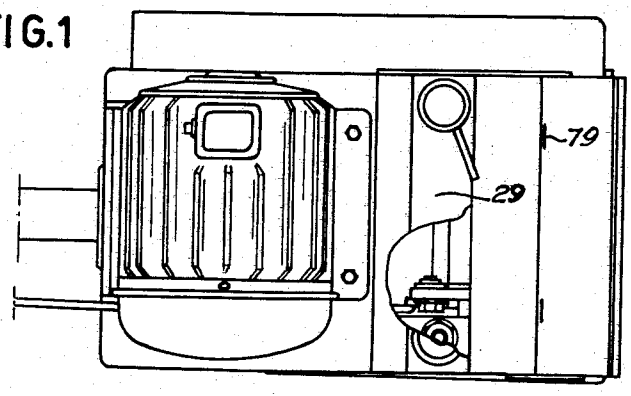


FIG. 1



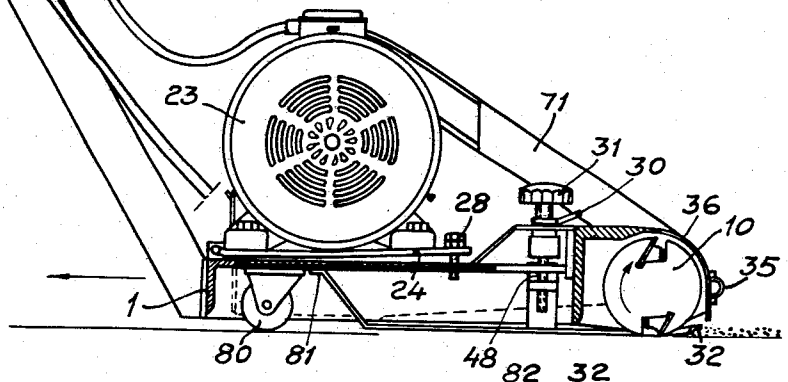
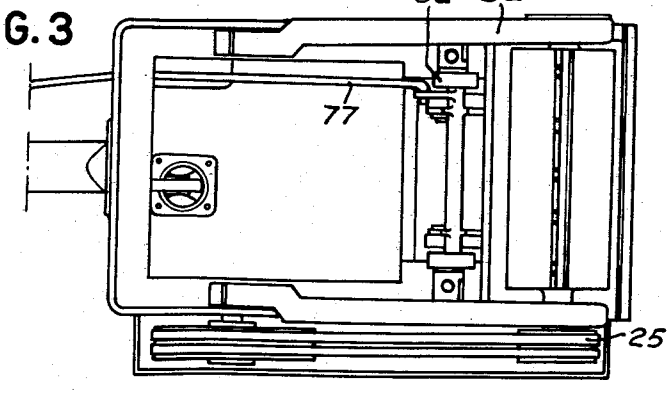


FIG. 3



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Sept. 20, 1955 K. E. NORBERG 2,718,246

FLOOR PLANING MACHINE

Filed March 8, 1954 2 Sheets-Sheet 2

FIG. 4

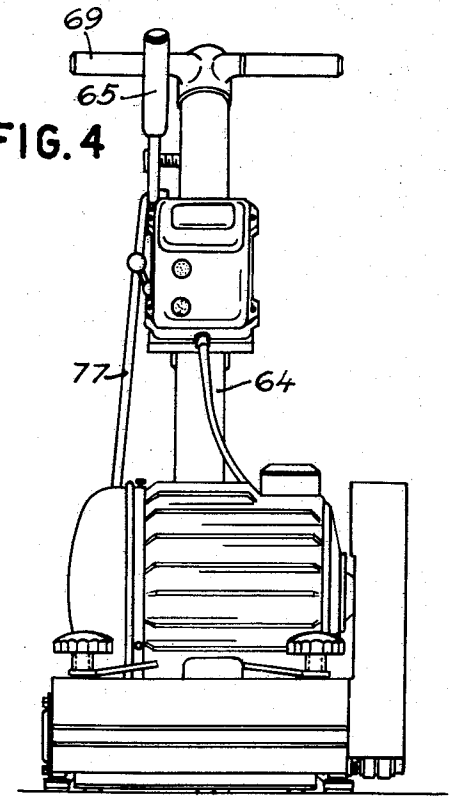
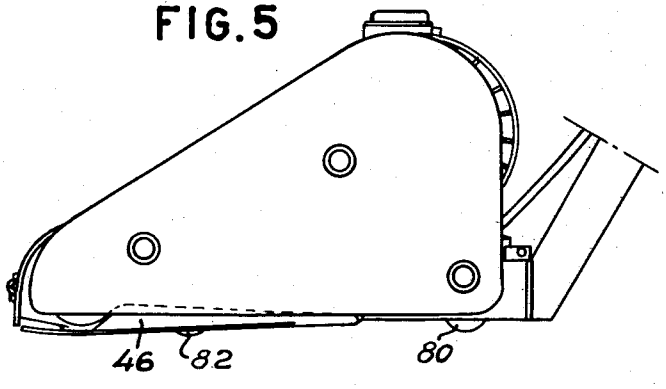


FIG. 5



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2,718,246

FLOOR PLANING MACHINE

Knut E. Norberg, Bjasta, Sweden

Application March 8, 1954, Serial No. 414,850

3 Claims. (Cl. 144—117)

The present invention relates to a floor planing machine comprising a round cutter mounted at one end of the machine and driven by an electric motor, the working depth of said cutter being adjustable by means of a slidable bar arranged at either side of the cutter, which slidable bar rests against the floor during the operation.

According to the invention the slidable bars are individually adjustable in the vertical direction.

The invention is illustrated by an embodiment in the drawing in which Fig. 1 is a plan view of a floor planing machine according to the invention, certain parts of the machine being excluded for the sake of simplicity. Fig. 2 is a side view partly in section of the planing machine according to Fig. 1. Fig. 3 is a plan view from below corresponding to Fig. 1. Fig. 4 is a front view corresponding to Fig. 2, and Fig. 5 shows the machine the protective cover being applied.

In the drawing the reference numeral **1** designates a machine frame carrying an electric motor **23**, a handle **69** being secured at their rear offset ends by means of a tube **64** to one end of the frame. The machine is supported on a chain roll **80** provided at the rear end of the frame and on two spaced wheels **82** provided at the forward portion of the frame, a round cutter **10** being also mounted on the frame forward of the spaced wheels **82**. When the rotary cutter **10** is not in use, the rear center roll **80** and front wheels **82** serve as means by which the machine can be wheeled i. e. transported from place to place. For adjusting the working depth of the cutter a slidable bar **32** is provided at either side of the cutter which bars rest against the floor during the operation, and which are secured to the frame **1** by hinges **81**. Each slidable bar **32** is adjustable in the vertical direction by means of a screw **48** turnable in the frame **1** and operated by a knob **31** on the upper side of the machine. The adjustment is lockable by means of a device **30**. In order to make the slidable bar sufficiently stable in the lateral direction and that it shall not be elastic it is provided with a vertical spring running close to the outer side **46** of the frame.

The cutter **10** is a safety round cutter of wedge construction and it operates preferably at a speed of 6000 revolutions per minute. The cutter **10** is driven by the motor **23** by means of belts **25**. In order to make it

possible to tension the belts the motor **23** is placed on a shelf **24** which can be raised and lowered. For starting the motor a starting device **78**, for example an Y-delta switch, is provided on the tube **64**. The machine is also provided with belt protection housing **71** and cutter protection housing **36**, which is provided with hinges for facilitating the change of cutter steel.

The wheels **82** are turnable backwards and upwards i. e. the wheels are retractable up into the machine frame for lowering the machine frame **1**, cutter **10** and bars **32** so that the latter rest upon the floor and cutter **10** is placed in working position, by means of a fork construction (not shown). The fork construction can be operated by means of a handle **65** and a connecting link **77**. After the planing operation is complete, handle **65** is operated in the reverse direction to lower the wheels **82** thus raising cutter **10** and bars **32** off the floor.

Having now described my invention what I claim as new and desire to secure by Letters Patent is:

1. In a floor planing machine the combination comprising a frame, a motor driven rotary cutter mounted on said frame to rotate on a fixed axis, and a bar mounted on said frame at each side of said cutter, said bars being in contact with and slidable upon the floor when said cutter occupies its operative position with the cutting edge thereof a preselected distance below the plane containing the floor contacting surfaces of said bars, said distance determining the working depth of said cutter, and means for adjusting said bars individually in a vertical direction with respect to said frame and the fixed axis of rotation of said cutter to thereby effect a corresponding adjustment in the working depth of said cutter.

2. A floor planing machine as defined in claim 1 and which further includes wheel means on said frame, said wheel means projecting below said bars and cutter when said cutter occupies a non-operative transport position, and said wheel means being retractable into said frame thereby to lower said bars and cutter to an operative position resting upon the floor.

3. A floor planing machine as defined in claim 1 wherein said bars have their rear ends offset in the direction of said frame, the rear ends of said bars being secured to said frame, and the means for adjusting each said bar is constituted by a screw threadable in said frame and having the lower end of the screw secured to said bar.

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