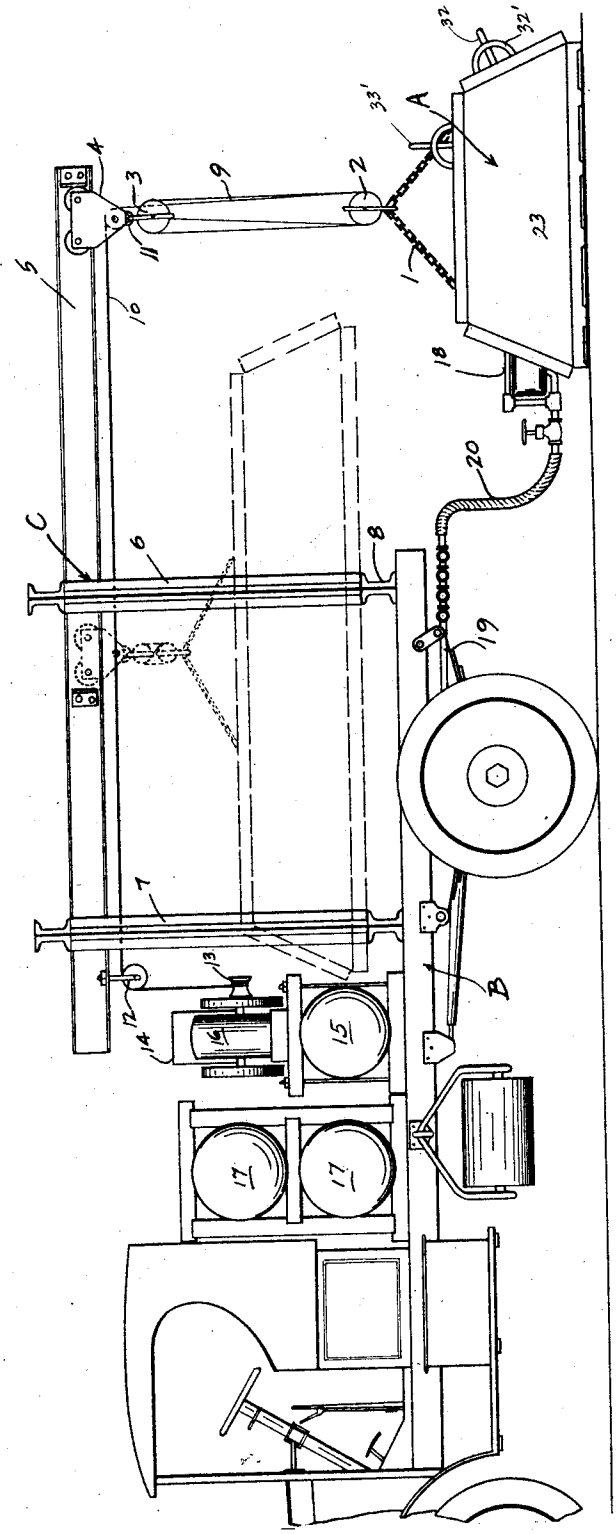
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P. J. OWENS ET AL

PAVEMENT RESURFACER

Filed Aug. 11, 1924



INVENTOR
P. J. OWENS
G. B. MALONEY

BY Wright & Brown
ATTYS

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PETER J. OWENS, OF SAN FRANCISCO, AND GEORGE B. MALONEY, OF FRESNO, CALIFORNIA.

PAVEMENT RESURFACER.

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This invention resides in the provision of an improved apparatus for re-surfacing and repairing asphalt and bitumen pavements and streets by the application of heat thereto, said apparatus being simple and inexpensive as to construction, small and compact to the extent that it may be readily incorporated with the ordinary motor truck, capable of being handled and moved with the ease and facility of the ordinary motor truck and yet capable of effectively treating a comparatively large area of pavement in a short period of time.

One of the objects of the invention is to provide a portable surface heater in which a comparatively large heater or furnace may be employed without rendering the truck any the less mobile, there being a novel and advantageous means for mounting and manipulating the furnace to cause it to be moved into the desired position for operation or into position to be conveniently supported on the truck body.

With the above mentioned and other objects in view, the invention consists in the novel construction and combination of parts hereinafter described, illustrated in the accompanying drawings, and set forth in the claims hereto appended, it being understood that various changes in the form, proportion, size and minor details of construction within the scope of the claims may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Referring to the drawings:

The figure represents a side elevation of the apparatus of the invention as when incorporated with a motor truck, the furnace being shown in dotted lines as when supported by the truck.

In the embodiment of the invention shown in the accompanying drawings, the furnace or heater designated A, is mounted on a motor truck designated B, and is operated by means generally designated C, in order that it may be raised from and lowered into position of use and likewise moved into and out of operative position, in the latter case, so as to be supported on the body of the truck.

The heater or furnace A is provided on its upper side with a bridle 1, having a pulley 2 attached to it. A similar pulley 3 depends from a carriage 4, which rides on a horizontal track 5 supported by standards 6 and 7 secured to cross pieces 8, which cross pieces support the furnace when the latter is in out of the way position, as shown in dotted lines, Fig. 1, said cross pieces being fastened to the main body of the truck. The pulleys are provided with tackle lines 9 as employed in the ordinary block and tackle arrangement, and associated with the tackle lines is a fall line 10, which extends over a pulley 11 on the carriage 4, and leads along beneath the track 5, to a pulley 12 carried at the inner end of the truck from whence it extends downwardly around the drum 13 of a suitable hoist engine 14 mounted on the truck body.

By pulling on the fall line 10, the tackle lines 8 operate to lift the furnace or heater A, until the blocks close up on one another, after which said line will move the carriage inward on the track 5. When moving the carriage 4 along the track, the furnace is turned lengthwise of the motor truck in position shown in dotted lines, Fig. 1, and may be allowed to come to rest on the cross pieces 8, between the standards 6 and 7. The comparatively long furnace A is turned lengthwise so that it will not project outwardly from the sides of the truck but will extend slightly rearwardly therefrom instead. Thus, it will be seen that a comparatively large furnace may be used without making the apparatus clumsy or bulky and interfering with the operation of the truck in heavy traffic, or in narrow streets, etc.

Mounted on the body of the truck is a compressed air tank 15 supplied with air from the compressor 16 operated by the engine 14. Fuel tanks 17 are supported on the body and feed fuel to burners 18 of the furnace through a pipe line 19, including a flexible pipe 20.

The furnace A comprises a shell of rectilinear outline, made up of sheet metal.

The surface heater of this invention constructed as illustrated and hereinbefore described, is capable of being readily moved from place to place and when it is desired to put the furnace in operation, it is run out on the track 5, turned around into position shown in full lines in the figure, and then lowered by the tackle, into ground engaging position. The operation of the furnace comprises manipulation of the burners 18 as is customary in the art, and application of the heat to the surface of the pave-

ment. The particular manner of mounting the furnace provides for ready adjustment and movement of the furnace to the desired position or angle while the vehicle or truck is stationary, and also facilitates the manipulation of the truck to move the furnace from place to place.

We claim:

1. The combination with a vehicle, of a pavement surface heater furnace, the length of which is greater than the width of the vehicle, a fuel supply on the vehicle, a flexible fuel feed connection between the furnace and said supply, means on the vehicle with which said furnace is rotatably connected and by which the furnace is subject to movement in a horizontal plane through at least 90° of arc, which means provides for moving the furnace from position of use into position of rest lying lengthwise of the vehicle and from position of rest into position of use lying on the ground at right angles to the position thereof when at rest.

2. The combination with a vehicle, of a pavement surface heater furnace, a fuel supply on the vehicle, a flexible fuel feed connection between the supply and furnace, said furnace being of greater length than the width of the vehicle, a cradle on the vehicle adapted to support the furnace when the latter is in a position extending lengthwise of the vehicle, a track supported by the vehicle and extending rearwardly thereof, a carriage movable back and forth on the track and means of connection between the carriage, furnace and vehicle providing for rotation of the furnace in a horizontal plane and for movement of the furnace from position of use into position of rest in engagement with the cradle and vice versa.

PETER J. OWENS.
GEORGE B. MALONEY.