

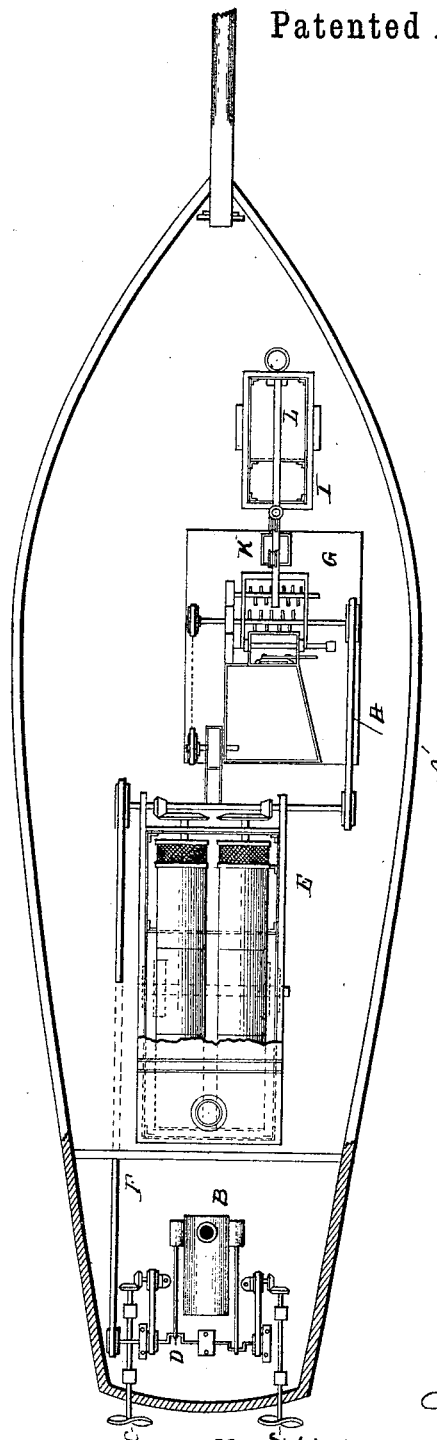
(No Model.)

F. V. GREENE.

APPARATUS FOR PREPARING ASPHALTIC CONCRETE FOR PAVING  
PURPOSES.

No. 348,492.

Patented Aug. 31, 1886.



Witnesses

*W. Chapman*  
*Samuel Scott*

Inventor

*F. V. Greene*

By his Attorney

*S. M. Jinsabaugh*

# UNITED STATES PATENT OFFICE.

FRANCIS V. GREENE, OF NEW YORK, N. Y., ASSIGNOR TO THE BARBER  
ASPHALT PAVING COMPANY, OF WASHINGTON, D. C.

APPARATUS FOR PREPARING ASPHALTIC CONCRETE FOR PAVING PURPOSES.

SPECIFICATION forming part of Letters Patent No. 348,492, dated August 31, 1886.

Application filed May 21, 1886. Serial No. 202,896. (No model.)

*To all whom it may concern:*

Be it known that I, FRANCIS V. GREENE, a citizen of the United States, residing at New York, in the county of New York, State of New York, have invented certain new and useful Improvements in Apparatus for Preparing Asphaltic Concrete for Paving Purposes, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in devices for the manufacture of asphalt-concrete for the laying of street-pavements.

The object of my invention is to provide a device for making asphalt-concrete, which can be moved from place to place and readily brought to a convenient distance from the point where it is to be used or laid in the street, so that the material will not be chilled or cooled too much before it is laid in position.

In large cities, as in New York and elsewhere, the works for heating the sand or crushed stone and melting and mixing the asphalt with the sand or stone to form a concrete are necessarily some distance from the place where it is to be used, and frequently the material must be hauled several miles. This hauling of the material such long distances is not only expensive, but the material becomes chilled to such an extent that it cannot be laid in a proper manner so as to form a perfect bond.

My invention therefore consists in mounting the heater, melter, mixing device, and other necessary devices on a boat in such convenient relations to each other that they can be used conjointly in the manufacture of the asphalt-concrete, the boat being adapted to be moved from one wharf to another, so as to be within a convenient hauling distance of the place where it is to be used.

In the drawing I have shown a top or plan view of a ship or vessel on which the devices are mounted.

A indicates the vessel or ship, which may be of any approved construction suitable for the purpose, and provided with an engine, B.

The engine is by preference located in the stern and hold of the vessel, and adapted to drive the propellers C, when it is desired to

move the boat from one landing or city to another; but when the boat is in position or at anchor the engine is adapted to be used to drive the heater and mixer by means of a fast and loose pulley mounted on the shaft D, which communicates power to the heater E through the band or endless belt F, while the mixer G is driven or operated by means of the endless belt or band H.

I is the melter, in which the asphaltum is melted or liquefied, said melter being arranged in such relation to the mixer that the melted asphalt can be readily carried or conveyed thereto by means of the bucket or vessel K, which is adapted to travel back and forth from the melter to the mixer on the ways or track L.

The melting, mixing, and sand-heating devices are not described in detail in this application, but are essentially of the same construction as shown, described, and claimed by me in an application filed May 24, 1886, Serial No. 203,150.

It may be proper to state in this connection that the heating, mixing, and melting devices are mounted on the upper deck of the vessel, so that the carts can be readily loaded by means of any suitable labor-saving device—such as an endless carrier or trough running from the bottom of the mixer—and that the front part of the hold or lower decks of the vessel can be utilized for the storage of the asphaltum, sand, and other material, or a portion of the lower decks can be arranged as berths, dining-room, and kitchen for the accommodation of the laborers.

Suitable elevators may be used to raise the material from the hold and deposit it in the heater or melter, and the various devices arranged in such relation to each other as may be most convenient or advantageous for the rapid manufacture of the asphaltic concrete.

By mounting the devices on a vessel in the manner described I am enabled to move the plant from one point to another, and to prepare the material at a place near the street to be paved, so that the concrete can be delivered without losing the heat to any great extent.

A further advantage of my invention is that I am enabled to move my entire plant without

trouble or inconvenience from one city to another, where such cities have the advantages of navigation.

Having thus described my invention, what I  
5 claim is—

1. A plant for the preparation of asphaltic concrete for paving purposes, consisting of a boat having the heating, mixing, and melting  
10 devices mounted thereon in substantially the manner described, and for the purpose set forth.

2. A plant for the manufacture of asphaltic concrete for paving purposes, consisting of a boat with propellers and engine for driving the same and the heater and mixer adapted  
15 to be driven by the same engine, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FRANCIS V. GREENE.

Witnesses:

WM. M. GAGE,  
A. L. BARBER.