

# UNITED STATES PATENT OFFICE.

GUSTAF BAGGE, OF PARIS, FRANCE.

## PAVING-BLOCK.

SPECIFICATION forming part of Letters Patent No. 527,923, dated October 23, 1894.

Application filed February 3, 1894. Serial No. 499,011. (No specimens.)

*To all whom it may concern:*

Be it known that I, GUSTAF BAGGE, a subject of the King of Sweden and Norway, and a resident of the city of Paris, Republic of France, have invented certain new and useful Improvements in Paving-Blocks, of which the following is a specification.

A great quantity of materials, either in their individual natural state or combined have been tried for paving public thoroughfares in large cities; but all are possessed with some defect. Paving stones of various qualities are too hard for the hoofs of the horses. They sink unevenly into the ground and the carriages passing over the same make too much noise. Macadam is very expensive to keep in good shape and is too muddy when it rains. Asphalt and wood paving are also very expensive and become dangerously slippery by humid weather. Besides the consistency of the asphalt varies according to the temperature and it becomes soft during the hot season.

My new compound obviates the defects mentioned and consists of a combined wood and hard stone. I mix saw dust of any kind of wood with fine crushed stones while adding a glutinating matter to it, if necessary. If the saw dust comes from very resinous wood it will contain a sufficient quantity of resin for causing the fine parts to adhere under the influence of heat and of a very strong hydraulic compression. If not, I add to the mixture either resin or albumen or some other glutinating body under the influence of compression and heat. This mixture is put in heated molds of a shape to

conform with the desired shape of the paving stones and is strongly compressed under a hydraulic press. The heat which must vary according to the glutinous matters contained is maintained during the compression.

Such a paving stone possesses the qualities of the wood, as it contains a great quantity of it but it possesses the same in a superior degree because its hardness is not uneven as is that of natural wood. Having been submitted to an enormous and constantly uniform pressure the wooden parts of the mass will possess a perfectly uniform resistance. The wearing out will at the same time disclose the crushed stone, mixed in the mass and these small stones, which offer more resistance to the wearing out than the wood will furnish the desired roughness to the surface of the paved parts and will prevent the horses from slipping during moist weather.

Having thus described my invention, I claim—

1. A paving block composed of crushed stones and the saw dust of a resinous wood, substantially as described.

2. A paving block composed of crushed stones, albumen and the saw dust of a resinous wood, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 15th day of January, 1894.

GUSTAF BAGGE.

Witnesses:

M. CORROYER,  
CLYDE SHROPSHIRE.