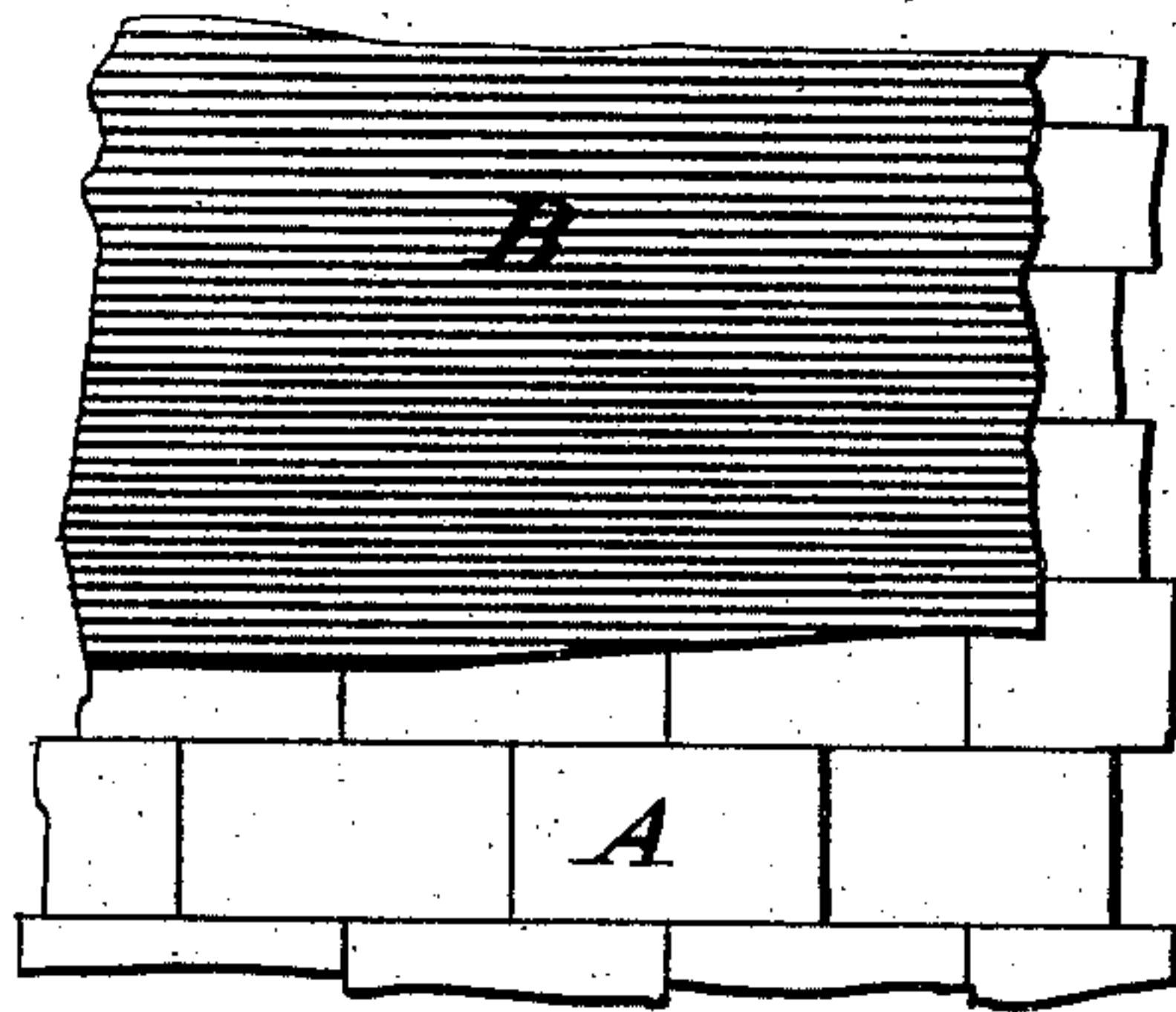


G. M. ROLLINS.  
Roller-Skating Surfaces.

No. 198,045.

Patented Dec. 11, 1877

*Fig. 1*



*Fig. 2*



**WITNESSES:**

*A. W. Almquist*  
*J. A. Scarborough*

**INVENTOR:**

*G. M. Rollins.*

**BY**

*Wm. H. Rollins*  
**ATTORNEYS.**

# UNITED STATES PATENT OFFICE.

GEORGE M. ROLLINS, OF BROOKLYN, NEW YORK, ASSIGNOR TO HELEN M. ROLLINS, OF SAME PLACE.

## IMPROVEMENT IN ROLLER-SKATING SURFACES.

Specification forming part of Letters Patent No. **198,045**, dated December 11, 1877; application filed March 24, 1877.

*To all whom it may concern:*

Be it known that I, GEORGE M. ROLLINS, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Roller-Skating Surface, of which the following is a specification:

Figure 1 is a plan view, having portions broken away to show the construction more clearly. Fig. 2 is a transverse section.

Similar letters of reference indicate corresponding parts.

The object of my invention is to provide a smooth, hard, and durable surface adapted to the purpose of roller-skating; and it consists of a floor composed of rock-asphalt, bitumen, and resinous oil, which are mixed together and applied to a suitable foundation in the manner hereinafter more fully described.

In carrying out my invention I take a quantity of rock-asphalt, the variety known as Swiss rock-asphalt being preferred, in the proportion of about eighty-nine per cent. of the whole composition, and add to it ten per cent. of bitumen, and a small quantity of linseed or other drying or resinous oil, in the proportion of about one per cent. I heat the ingredients until they are semi-fluid, and while in this state I stir the mass thoroughly until it is evenly mixed.

I then take the composition thus formed, while it is still in a warm and plastic state, and spread it upon a foundation of bricks, stone, or plank, and, by means of floats, I manipulate the surface until it becomes entirely cold, taking care to have the surface perfectly level.

In floating the surface I employ several

gangs of men, who follow one after the other in succession, and continually smooth the surface with the floats, until the composition is entirely cold and hard.

The surface thus made and finished is unique, being as smooth as ice, and so hard as to be uninjured by continual use. It possesses qualities peculiarly fitted to the purpose for which it is intended.

Referring to the accompanying drawing, A is a foundation, which, in the present case, consists of brick, but which may be made of any suitable material. B is the skating-surface, formed of the composition above described.

In my composition for roller-skate surfaces, I preferably use the Peruvian bitumen or Trinidad pitch, either of which is admirably adapted to the purpose.

It will thus be perceived that I use about eighty-nine per cent. of rock-asphalt or hard bitumen, about ten per cent. of soft bitumen, and about one per cent. of oil, by which to produce a floor of remarkable hardness, and with a smooth, polished surface.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A roller-skating surface, consisting of a composition of asphalt, bitumen, and resinous oil, laid while warm, and finished by manipulating it continuously until it becomes cold, as herein set forth.

GEORGE M. ROLLINS.

Witnesses:

C. SEDGWICK,

ALEX. F. ROBERTS.