

E. F. Loiseau & C. F. Reguin. Artificial fuel.

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PATENTED JUN 21 1870

Fig. 1.

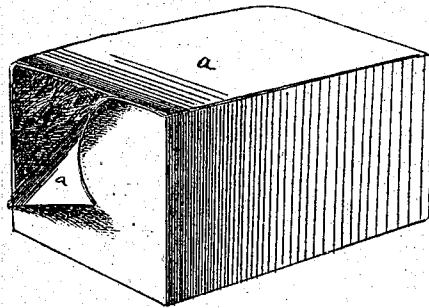
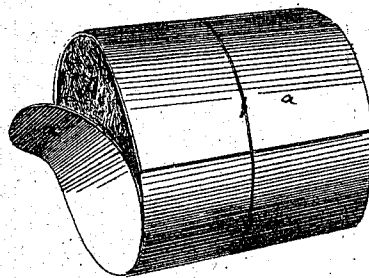


Fig. 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

EMILE F. LOISEAU AND CHARLES F. REQUIN, OF NASHVILLE, TENNESSEE.

IMPROVEMENT IN ARTIFICIAL FUEL.

Specification forming part of Letters Patent No. **104,471**, dated June 21, 1870.

To all whom it may concern:

Be it known that we, EMILE F. LOISEAU and CHARLES F. REQUIN, of Nashville, in the county of Davidson and State of Tennessee, have invented a new and Improved Artificial Fuel; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figures 1 and 2 represent perspective views of blocks of artificial fuel prepared in accordance with our invention.

Similar letters of reference indicate corresponding parts.

This invention has for its object to practically utilize coal-dust as fuel.

Many inventions as to composition have already been made with a view of binding the dust firmly together, but as yet they have all failed to give entire satisfaction. The rough handling to which lumps of composition fuel are exposed during transportation, while being loaded and unloaded, will generally cause them to break and crumble to pieces, and make them consequently practically useless.

Our invention consists in dipping the lumps of artificial fuel, which are composed of coal-dust and clay, or other suitable ingredients, wholly or partly in pitch and tar, gum, as-

phaltum, rosin, or any other water-proof and adhesive material or composition. After having been dipped in one or more of the above-described substances, the lumps of coal may be rolled in or covered with pulverized coal or coal-dust or sawdust, or thin wood, or paper, or any other material or fabric which will adhere to the same.

A in the drawing are lumps of artificial fuel, which are composed of coal-dust and clay, or other suitable materials. These lumps may be of prismatic, cylindrical, or other suitable form, and of suitable size. Each is wholly or partly covered with the water-proof material, as above set forth. The outer covering, *a*, (shown in the drawing,) can, however, be dispensed with.

The inner coating serves to make the lumps water-proof, and prevents their crumbling to pieces when handled.

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

The lump of artificial fuel inclosed wholly or partly in a protecting covering, substantially as herein shown and described.

EMILE F. LOISEAU.
CHARLES F. REQUIN.

Witnesses:

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