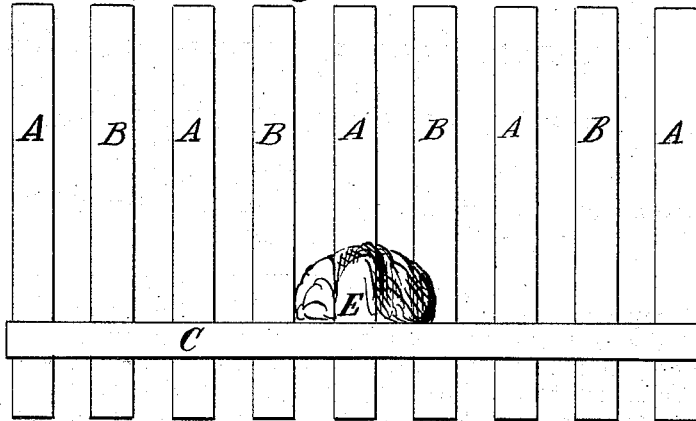


C. L. POND.  
FIRE-KINDLER.

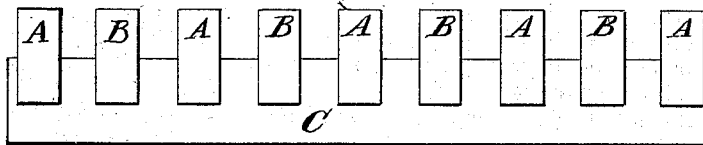
No. 182,287.

Patented Sept. 19, 1876.

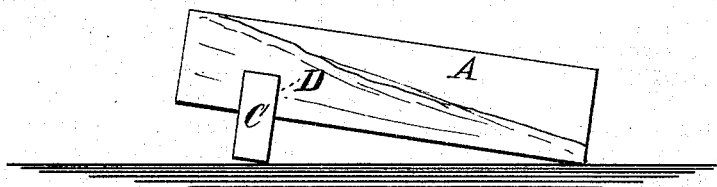
*Fig. 1*



*Fig. 2*



*Fig. 3*



*Witnesses-*  
*Amos W. Sangster.*  
*Chas. L. Pond.*

*Inventor.*  
*Charles L. Pond*  
*By James Sangster*  
*Atty*

# UNITED STATES PATENT OFFICE.

CHARLES L. POND, OF BUFFALO, NEW YORK.

## IMPROVEMENT IN FIRE-KINDLERS.

Specification forming part of Letters Patent No. 182,287, dated September 19, 1876; application filed August 17, 1876.

*To all whom it may concern:*

Be it known that I, CHARLES L. POND, of the city of Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Fire-Kindlers, which improvements are fully set forth in the following specification, reference being had to the accompanying drawings.

The object of this invention is to provide a cheap, simple, and effective means for kindling either a wood or hard-coal fire; and it consists of a series of bars of wood, arranged in the form of a grate, and held together by a transverse piece, which is fitted and forced into a groove cut in the lower edge of each of said bars, a portion of the transverse piece or binder being made to project downward from the grate, so as to leave an air-space between the bottom of the same and the fire-grate or surface to which it may be applied, the bars and transverse piece all being coated, or partly coated, with a resinous or other combustible material, and provided with a small portion of paper, shavings, or other light substance, coated with the same, so as to afford the means for a ready ignition, as will be more clearly hereinafter described.

My invention further consists in the combination of a series of alternate hard and soft wood bars, arranged in the form of a grate, with a cross-bar or binder connected therewith, as above mentioned, the object being to provide the means for lighting a hard-coal fire, as well as a wood fire. Light wood has not sufficient heat for the purpose, but it will light or start the hard wood, and the combined heat of both will be sufficient to start a hard-coal fire. The hard wood alone would not answer the purpose, it being too hard to start, the light-wood bars being combined with it to start it burning.

In the said drawings, Figure 1 represents a bottom view, showing the bars arranged parallel; also the cross-bar or binder. Fig. 2

is a front view; and Fig. 3 represents a side elevation, showing its position when placed upon a stove-grate or other surface for the purpose of starting a fire.

A B represent a series of wooden bars, A showing the soft wood and B the hard wood, or vice versa. C is the binder. It is fitted firmly to the bars A B by being forced into an opening, D, in said bars, (shown in Fig. 3,) cut so that they will fit tightly when forced therein, and be sufficiently strong without the aid of nails or other equivalent means. E represents a piece of paper or some light material, for the purpose of providing a ready means for starting it.

The lower portion of the kindler, or all, if required, is covered with some resinous or other easily-combustible material, which answers the double purpose of cementing the parts together and affording the means for a ready combustion.

The openings cut into the bars A B, to receive the binder, may be cut in the binder and the bars inserted therein without changing the nature of the invention, and there may be one or more binders C, if necessary.

I claim as my invention—

1. In a fire-kindler, the combination of a series of hard and soft wood bars, A B, coated with a resinous material, with a binder, C, by which they are connected and held together, substantially as and for the purposes specified.
2. A series of bars, A or B, of wood, coated with a resinous material, and arranged substantially as specified, in combination with a binder, C, to which they are connected by means of a slot or opening, D, to leave the lower side of the binder projecting downward, as and for the purposes described.

CHARLES L. POND.

Witnesses:

O. A. TREEVALLEE,  
JAMES SANGSTER.