

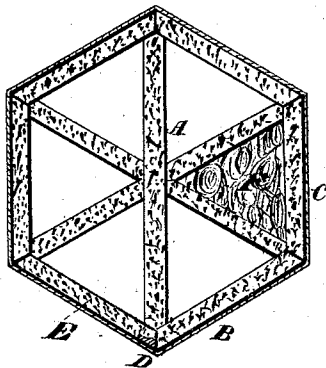
J. J. K. BOOTE & G. L. HECHLER.

FIRE-KINDLER.

No. 178,263.

Patented June 6, 1876.

Fig. 1-



WITNESSES  
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# UNITED STATES PATENT OFFICE.

JOHN J. K. BOOTE AND GEORGE L. HECHLER, OF CLEVELAND, OHIO.

## IMPROVEMENT IN FIRE-KINDLERS.

Specification forming part of Letters Patent No. **178,263**, dated June 6, 1876; application filed April 15, 1876.

*To all whom it may concern :*

Be it known that we, JOHN J. K. BOOTE and GEORGE L. HECHLER, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Fire-Kindlers; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

Our invention relates to an improved fire-kindler; and consists of an open polygonal frame-work of wood, bound together with a cord or other suitable binding, then dipped in a compound, preferably of resin and paraffine, then coated with sawdust, likewise treated with paraffine, and with a bunch of shavings attached as a lighter, all as hereinafter set forth and claimed.

In the drawings, Figure 1 is a plan view of a fire-kindler embodying our invention.

A are pieces of wood or ordinary lath, which we generally prefer to be pine, though any other wood may answer the purpose. B are similar outside pieces, that serve to hold the pieces A apart from each other, and at the same time to assist in binding the kindler, and itself forming a part of the kindler.

The particular conformation of the pile is not absolutely essential, although we find the flat polygonal form of three or more pieces to be very desirable, and have found that the particular kindler shown in the drawings has given universal satisfaction in every respect. C is a cord, which fastens together the several pieces A and B, that form the body of the kindler; or, in place of the cord, any other binder may be employed. D is a coating or partial coating of a compound of resin and paraffine, or any other similar inflammable compound that will harden after application.

We prefer the above compound, however, on account of its not being odorous, and being clean to handle. The compound that we

have employed has been composed of one part of paraffine to seven parts of resin; or, instead of the paraffine, we sometimes propose to employ any other of the inflammable products of petroleum or other oils.

E is sawdust that has preferably been previously saturated with paraffine, or other petroleum or oily product, though we may employ simply the clean sawdust. It is made to adhere to the resinous compound before the same has hardened. F is a small bunch of shavings or equivalent substance, which we stuff into one of the openings between the pieces of wood A, and which serves simply as a lighter, to which the match may be applied.

The fire-kindler here described, and particularly the one shown in the drawings, being flat, rests low in the grate, leaves plenty of room for fuel, does not impede the draft through it, is compact, easily handled, and is clean and inodorous.

We have usually made them for ordinary domestic purposes about five inches in diameter and one and one-half inch deep; but it is understood that we do not limit ourselves to any particular size of kindler; nor do we limit ourselves to sawdust, as any other equivalent substance may be used—as, for instance, tan-bark, &c.

What we claim is—

The polygonal fire-kindler set forth and shown, consisting of the pieces of wood A B, the binder C, coating D, of a compound of resin and paraffine, sawdust made to adhere to the same, and which may or may not have been previously treated with paraffine, and with a lighter, F, substantially as described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

JOHN J. K. BOOTE.  
GEORGE L. HECHLER.

Witnesses:

WELLS W. LEGGETT,  
FRANCIS TOUMEY.