

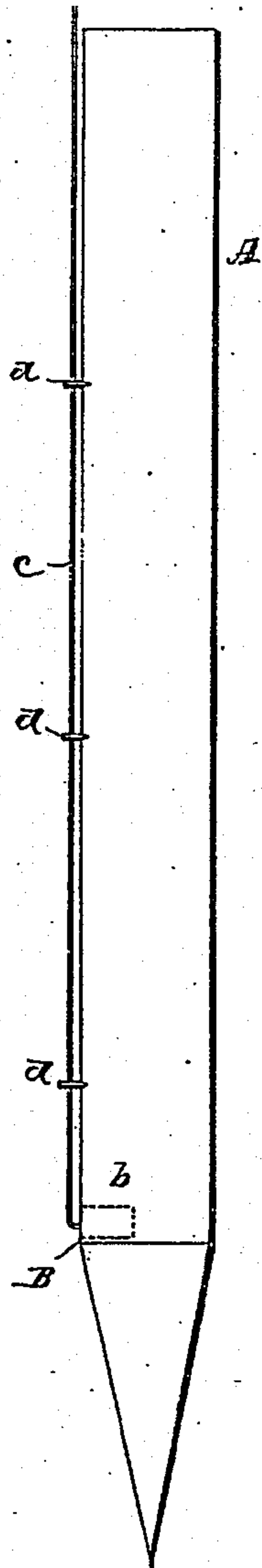
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(No Model.)

W. R. RIGHTOR.
BLASTING DEVICE.

No. 306,430.

Patented Oct. 14, 1884.



WITNESSES

E. Nottingham
Albert Popkins

INVENTOR

Wm R. Rightor
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UNITED STATES PATENT OFFICE.

WILLIAM R. RIGHTOR, OF HELENA, ARKANSAS, ASSIGNOR OF ONE-FOURTH
TO DANIEL A. LINTHICUM, OF SAME PLACE.

BLASTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 306,430, dated October 14, 1884.

Application filed July 31, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. RIGHTOR, of Helena, in the county of Phillips and State of Arkansas, have invented certain new and
5 useful Improvements in Blasting Devices; and I 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 appertains to make and use the same.

10 My invention relates to an improvement in blasting devices for opening water-ways, canals, &c., the object of the same being to provide a device which shall be efficient in use and simple and economical in construction;
15 and with this end in view my invention consists in certain novel features of construction and combinations of parts, as will be hereinafter described, and pointed out in the claim.

The accompanying drawing is a view of my
20 improvement in vertical section.

A represents a pile of any suitable size, the lower end, *a*, of which is pointed, and may, if desired, be provided with a pointed metallic cap, for the purpose of preventing damage to
25 the pile when driven in the ground. A short distance above the pointed end of the pile is formed a recess or cavity, *b*, in which is placed a cartridge, *B*, of any suitable character, the outer face of the cartridge resting flush with
30 the outer face of the pile. From this cartridge leads a wire, *c*, the latter being retained in position by means of staples *d*, secured in

the pile; or, if desired, a groove may be formed the length of the pile and the wire set therein, the wire extending to the top of the pile. After the cartridge has been inserted in the recess in the pile, the latter is driven down in the ground and the wire connected with suitable battery and the cartridge exploded, thereby blasting the earth or other substance in which the pile is driven. By this arrangement of parts work may be executed by laborers that would otherwise require skilled labor.

This device is well adapted for blasting out old piles or stumps, and also for opening the earth in building canals, &c., being exceedingly simple, effective, and economical.

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

The combination, with a wooden pile having one end thereof pointed, of a cartridge located in a recess formed in the side of the pile, above said pointed end, and a wire connected with the cartridge and extending along the pile, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM R. RIGHTOR.

Witnesses:

H. S. HOSMER,

G. ESSERTIER.