

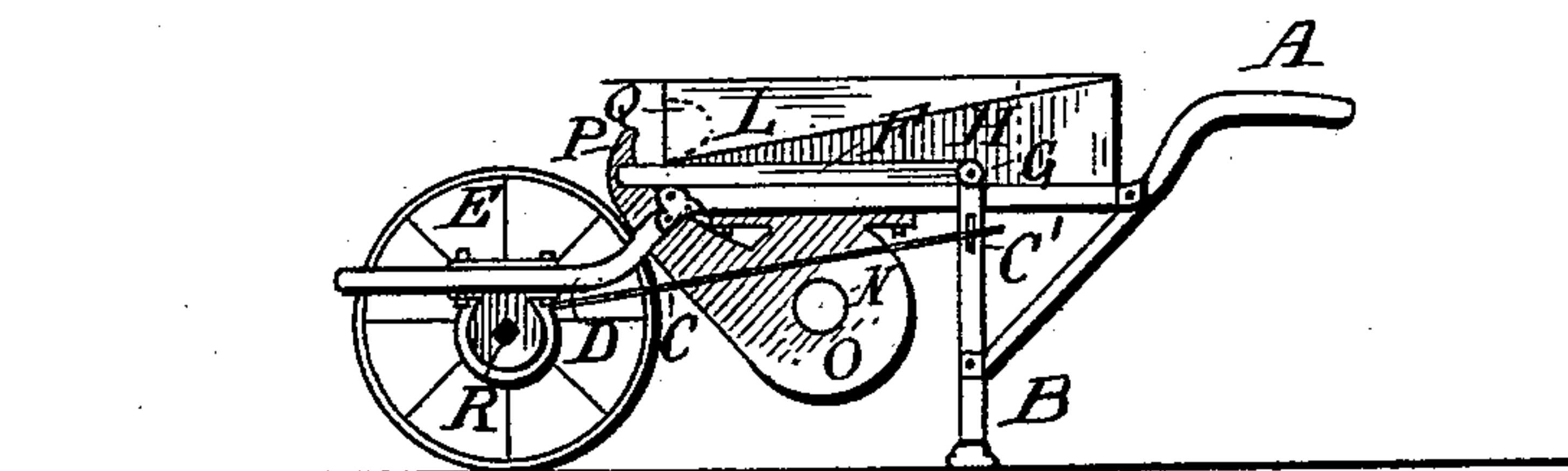
(No Model.)

R. S. BOZON.  
PORTABLE FORGE.

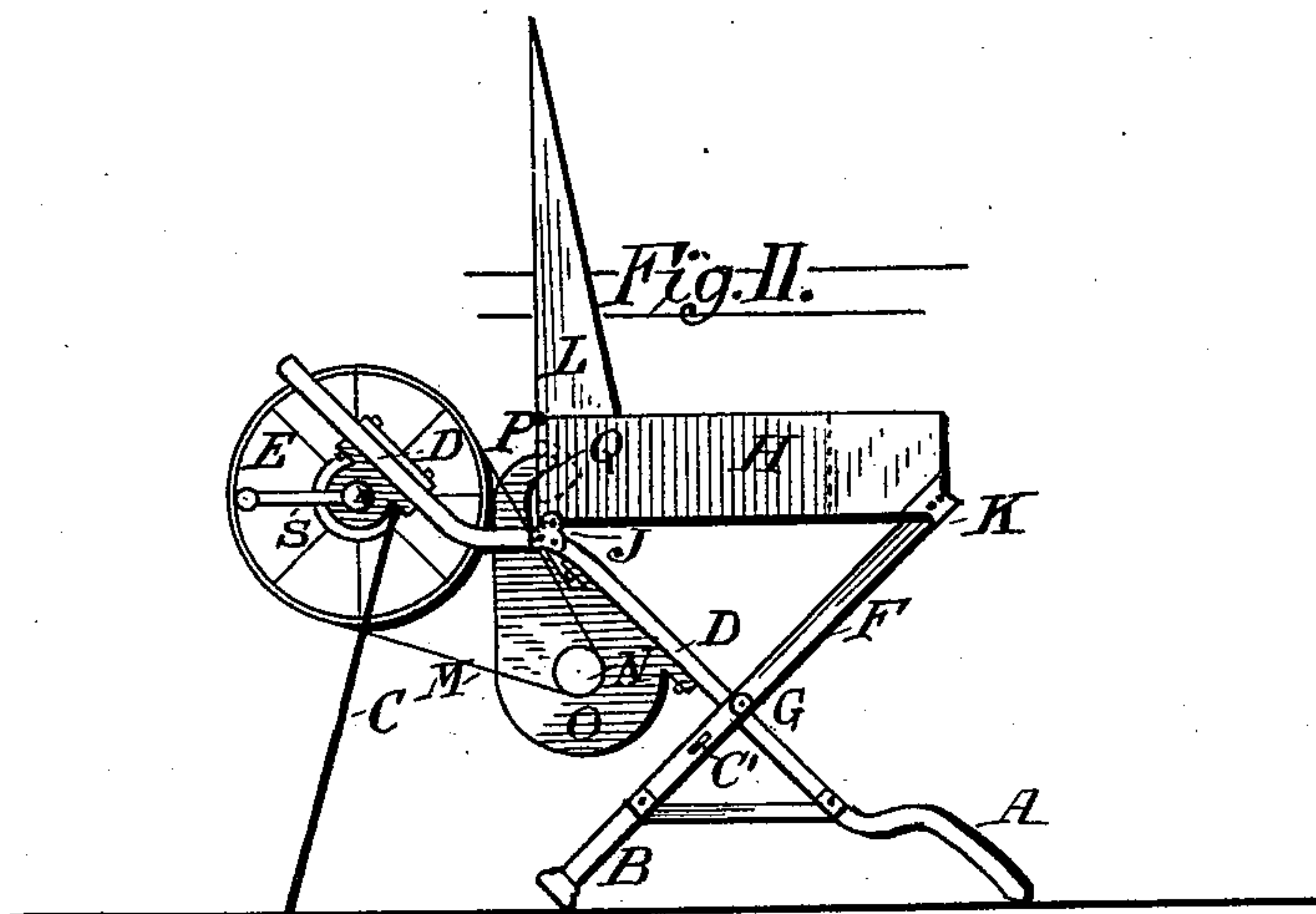
No. 539,608.

Patented May 21, 1895.

*Fig. 1.*



*Fig. 2.*



Witnesses  
E. H. Sturtevant.  
E. A. Scott.

INVENTOR.  
Robert Sebastian Bozon,  
by *Richard R.*

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# UNITED STATES PATENT OFFICE.

ROBERT SEBASTIAN BOZON, OF BIRMINGHAM, ENGLAND, ASSIGNOR OF ONE-HALF TO WILLIAM PERCY WILSON BROWNE AND ARTHUR EDWARD WILSON BROWNE, OF SAME PLACE.

## PORTABLE FORGE.

SPECIFICATION forming part of Letters Patent No. 539,608, dated May 21, 1895.

Application filed September 11, 1894. Serial No. 522,722. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT SEBASTIAN BOZON, of Birmingham, England, have invented certain new and useful Improvements in Portable Forges; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters shown thereon, which form a part of this specification.

The object of my invention is to provide means in the construction of portable forges whereby the same can be readily arranged for use as such, or closed up for portable purposes, and it consists of an iron or other frame, such as would be used for a wheelbarrow upon which is hinged, or suitably connected, a square or other shaped box of iron, (preferably,) and having a lid in connection therewith. Attached to the iron or other frame, and under the box is a fan blower. Two supports, or rests, are hinged or otherwise connected underneath the bearings upon each side of the wheel; the said rests when out of use lying parallel with the frame and being supported in place by hooks or clips upon the legs, or other convenient part.

In the accompanying drawings, in which similar letters indicate the same parts, Figure I is a side elevation, in outline, of a portable forge. Fig. II is also a side elevation, in outline, showing the manner in which the apparatus is converted into a forge.

In order to fit up the apparatus as a forge, the barrow is tilted upon its handles A and legs B, and stands upon the same, and the two supports or rests, (one on each side) as at C, hinged to, or otherwise suitably connected to the forward part of the frame D, that carries the wheel E, are released from the hooks or clips C' upon the legs B, or elsewhere, and are brought into position, see Fig. II, to support the front part of the apparatus. The two arms as at F, hinged to the legs B, at G, are straightened out so as to support the iron box H upon each side at its one end, which box is now lifted into a horizontal position and rests upon the arms F, and frame D, the

said box being hinged, or otherwise suitably attached to the frame D, at J, and also connected conveniently to the arms F at K. Thus the hearth of the forge is formed. The lid L of the box, suitably hinged, or pivotally connected thereto, is then raised into a vertical position, and thus forms the back of the hearth of the forge.

A band or cord, M, is passed over the barrow wheel E, which now acts as a driving wheel and also over a pulley wheel N upon, or within, the fan blower O, the nozzle, P, of which, is brought into position in what is known as the "tue" iron Q, (shown by dotted lines,) by the action and position of the box H, which takes its radius by turning upon the hinges J on each side of the frame D.

The shaft or spindle carrying the barrow wheel is finished square upon its outer projecting end, R, upon which a handle S is fitted and by turning the same, the wheel E is revolved. The band or cord M, in connection therewith, and the pulley N of the fan blower O, drive the said blower, which generates the necessary blast of air and forces it through the nozzle P of the fan into the square iron box H, and thus completes the action of the forge.

When not required for use as a forge the parts comprising the same are closed up into the form of a barrow for removal, as shown.

I do not limit myself to the precise arrangement, or form of barrow, as the same may be varied, or a truck or other vehicle may be adapted without any departure from the principle of my invention.

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

1. A portable forge comprising the hearth, the blower including the drive wheel, and the folding frame for supporting said parts, said drive wheel being arranged to act as a tread wheel when the frame is folded for moving, substantially as described.

2. A portable forge comprising the hearth, the folding frame including the handles or side bars to which the hearth is pivoted, and the blower carried by the side bars and arranged to be moved into proper relation to



the hearth when the frame is unfolded, substantially as described.

3. In combination in a portable forge, the hearth, the side bars pivoted thereto, the foot  
5 piece B attached to the side bars, the hinged  
brace F extending from the side bars to hold  
the hearth in horizontal position and the  
blower carried by the side bars and adapted  
to be moved into proper relation to the hearth  
10 when the forge is set up, substantially as described.

4. In combination in a portable forge, the hearth, the cover hinged thereto, the folding  
frame to which the hearth is pivoted, and the  
15 blower carried by the folding frame, the said  
hinged cover being arranged to form the back

of the hearth when raised, substantially as described.

5. In combination in a portable forge, the hearth, the folding frame to which the same 20  
is pivoted, said frame including the side bars  
and the blower carried by the side bars and  
having the drive wheel journaled in the side  
bars and arranged to act as the carrier wheel,  
substantially as described. 25

In witness whereof I have hereunto set my  
hand in presence of two witnesses.

ROBERT SEBASTIAN BOZON.

Witnesses:

EDW. B. PAYNE,

JOHN HENRY MILWARD.