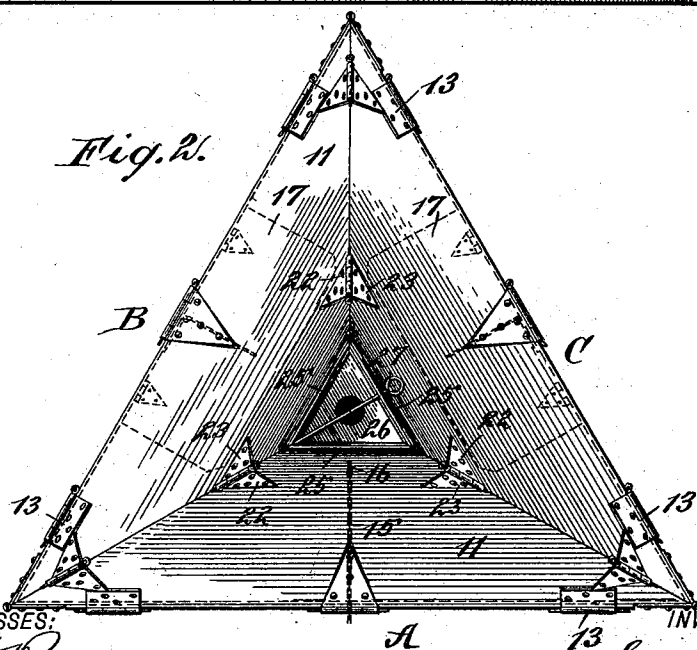
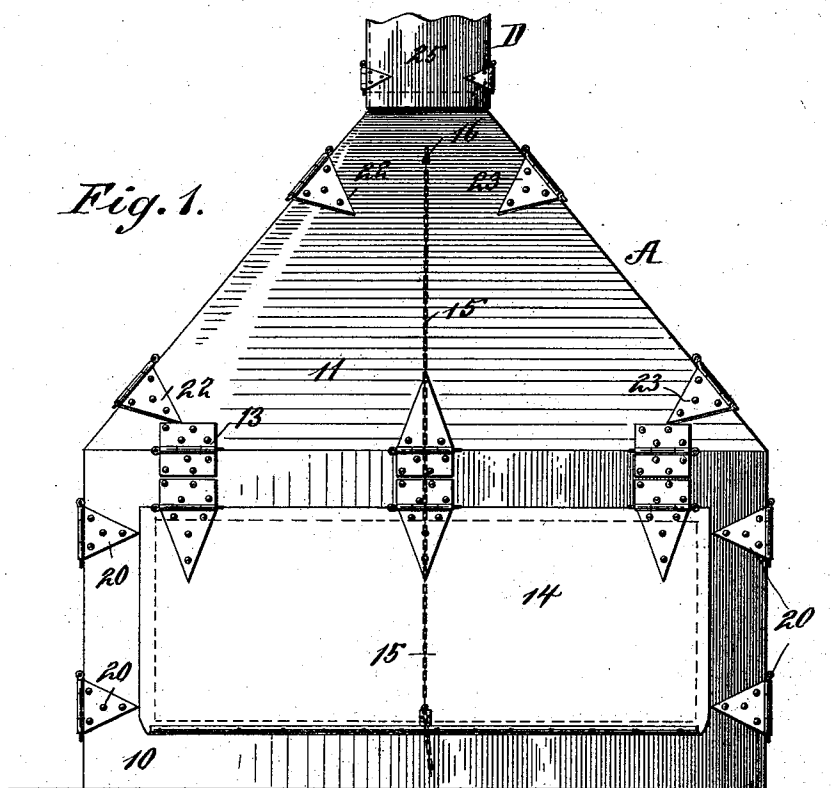


G. W. MINGS.
CAMP STOVE.

No. 506,058.

Patented Oct. 3, 1893.



WITNESSES:

John H. Rennie.
Wm. Sedgwick

INVENTOR

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ATTORNEYS.

(No Model.)

2 Sheets—Sheet 2.

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Fig. 3.

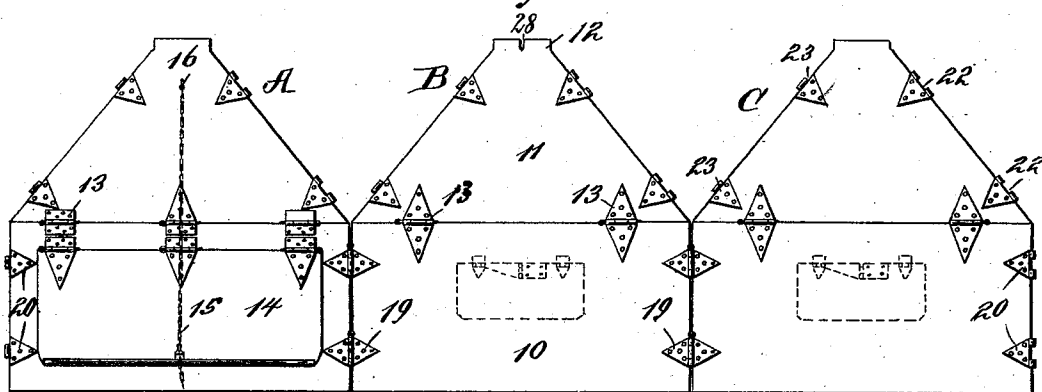


Fig. 4.

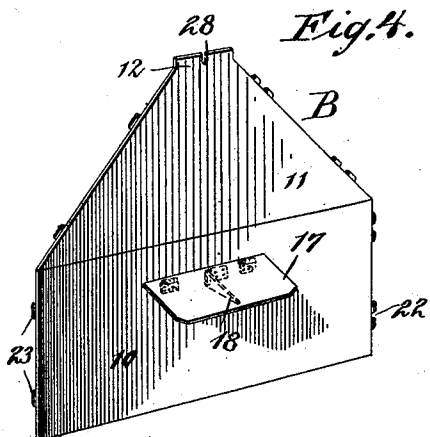


Fig. 5.

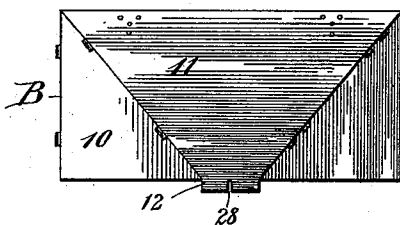


Fig. 6.



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UNITED STATES PATENT OFFICE.

GEORGE W. MINGS, OF NEW CASTLE, COLORADO.

CAMP-STOVE.

SPECIFICATION forming part of Letters Patent No. 506,058, dated October 3, 1893.

Application filed November 2, 1892. Serial No. 450,749. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. MINGS, of New Castle, in the county of Garfield and State of Colorado, have invented a new and useful Improvement in Camp-Stoves, of which the following is a full, clear, and exact description.

My invention relates to an improvement in camp stoves, and has for its object to construct a stove capable of being folded up to occupy comparatively little space, the folding of the stove, which is constructed in sections, being made so closely that a stove capable of effective service may, when folded, be carried in a saddle-bag for example.

Another object of the invention is to construct the stove in such manner that it may be expeditiously and conveniently set up for use, or knocked down for transportation, and further to construct the stove in an exceedingly simple and economic manner.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the stove set up for use. Fig. 2 is a plan view thereof. Fig. 3 is a side view of the sections of the stove folded out. Fig. 4 is a perspective view of one of the sections of the stove. Fig. 5 is a side elevation of the section shown in Fig. 4 folded down, one portion over the other; and Fig. 6 is a perspective view of a damper employed in connection with the stove.

The stove is constructed preferably of three main sections, designated as A, B and C, each section being of practically the same shape; and each section comprises a base or body portion 10, which is ordinarily made rectangular in general contour, and an upper section 11, the said upper section being of somewhat triangular shape, but flattened at its upper or contracted end, the upper or contracted portion being carried upward beyond the sides in a vertical direction to form an extension 12.

The sections of the stove may be made of any suitable or approved material, but in order that the stove may be as light as possible and yet stand hard usage, sheet iron is usually employed for the purpose.

The base and top members of each section of the stove are connected by means of hinges 13, the hinges employed being preferably of the strap or butt pattern. The hinges are secured upon the outer faces of the sections, as shown in the drawings, and one section has an opening made in its base member, normally closed by a hinged door 14, and this door has connected with its lower edge one extremity of a chain 15, the other end of the chain being carried upward and engaged with a hook 16, or its equivalent, located upon the outer face of the upper member of that section. Thus the door may be held partially open—or entirely open by shortening the chain 15 and causing a convenient link to be passed over the hook. Each of the other two sections B and C, for example, has a shelf 17, hinged upon the inner face of its base member, and these shelves are capable of being folded down to a vertical position, that is, parallel with the sections with which they are in engagement, or they may be carried upward to a horizontal position at a right angle to the section, as shown in Fig. 4, and be held in that position through the medium of a support 18, hinged to the section and located beneath the shelf. All the sections A, B and C, are connected by hinges 19, the hinges being exteriorly placed, and serve to connect the end portions of the base or lower members of the sections, and the extreme outer edge of one end section A for example, has secured to it one member of one or more hinges 20, said member of the hinge or hinges being provided with a single knuckle only, while the other members of the hinges 20 are secured to the opposite end section C, and these latter members are provided with two knuckles to receive between them the single knuckle of the other member.

Sectional portions of hinges are secured to the side edges of the upper member of each of the stove sections, and the hinge sections at one side of each of the stove-sections are provided with two knuckles; these members

of the hinges are designated as 22, while the members or sections of the hinges at the opposite side of each stove section, that is, at the upper portion of those sections, are provided with but a single knuckle and are designated in the drawings as 23, the single knuckle hinge sections being adapted to enter the double knuckle hinge sections 22 when the stove sections are brought together to form the complete structure.

The formation of the structure is made in the following manner: The stove sections A, B and C, after they have been hinged together at their base members are made to form practically a triangle; and the double knuckle hinge members, at one end of the chain of stove sections will receive the single knuckles of the hinged sections or members at the opposite end of said chain; and these two hinged sections or members are securely connected by passing pins or pintles down through the interlocking knuckles of the hinges; and I desire it here to be distinctly understood that in all of the hinges used in connecting the parts of the stove the pintles are removable, thus enabling the parts to be readily disconnected and piled one upon the other, occupying but little space. The base of the stove having been set up, the upper members of the sections A, B and C, are carried inward until their edges engage and the hinged sections are brought into interlocking engagement; the hinged sections are then secured together by passing pintles through their knuckles, as has heretofore been stated with reference to the formation of the base. In this manner a triangular structure is produced, in which the section carrying the door 14 is the front. The shelf 17 may be utilized as a support upon which to place articles, or to receive spits or like objects.

In connection with the stove a pipe D, is employed, and this pipe is also preferably made in three sections, designated in the drawings as 25, the sections of the pipe being connected in like manner to the sections of the stove; and a damper 26, shown in detail in Fig. 6, has its rod or axis 27, journaled in recesses 28, produced in the upper edges of two opposing or adjacent stove sections.

In Fig. 5 one of the stove sections is illustrated with its upper member folded down upon the base member, and it will be readily observed that the stove may be readily and conveniently knocked down by simply removing the pintles from the various hinges and folding the sections A, B and C, one upon the other, in which form they will occupy but

little room and may be readily placed in a saddle-bag for transportation.

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

1. A folding stove comprising the rectangular body sections hinged together at their ends, and a series of triangular sections hinged at their bases to the upper edges of the body sections and provided at their adjacent sides with separable connections, one of the body sections being provided with a door, substantially as set forth.

2. A folding stove comprising the rectangular body sections hinged together and each having a triangular section hinged to its upper edge and together forming a pyramidal top for the stove, said triangular sections, being provided at their sides with separable connections at their apexes with flanges to form a stove pipe collar, substantially as set forth.

3. A folding stove comprising the rectangular body sections hinged together, the triangular sections hinged at their bases to the upper edges of the respective body sections and formed at their apexes with flanges two of which have slots 28, devices for separably connecting the sides of the triangular sections and a damper pivoting in said slots, substantially as set forth.

4. A stove consisting in the rectangular body sections hinged together at their ends, a door opening and door therefor on one of said sections and hinged shelves on the inner sides of the other body sections, triangular sections hinged at their bases to the upper edges of the body sections and having separable connections at their sides, said sections being provided at their apexes with collar forming flanges, substantially as set forth.

5. A stove for camp purposes, the same consisting of a series of sections having a hinge connection, each section comprising a lower base member of essentially rectangular shape and an upper member of essentially triangular shape, the two members of each section having a hinge connection, and sectional hinges secured to the side edges of the upper members of the sections, the sectional hinges at one side of each upper member of a section being provided with a single central knuckle and the hinged sections at the opposite side with two spaced knuckles, as and for the purpose set forth.

GEORGE W. MINGS.

Witnesses:

J. FRANK TAUGHINBAUGH,
ELIAS PARRY.