J. B. MURRAY.

FOLDING STAND FOR PORTABLE HEATERS.

APPLICATION FILED JULY 14, 1915.

1,173,207.

Patented Feb. 29, 1916.

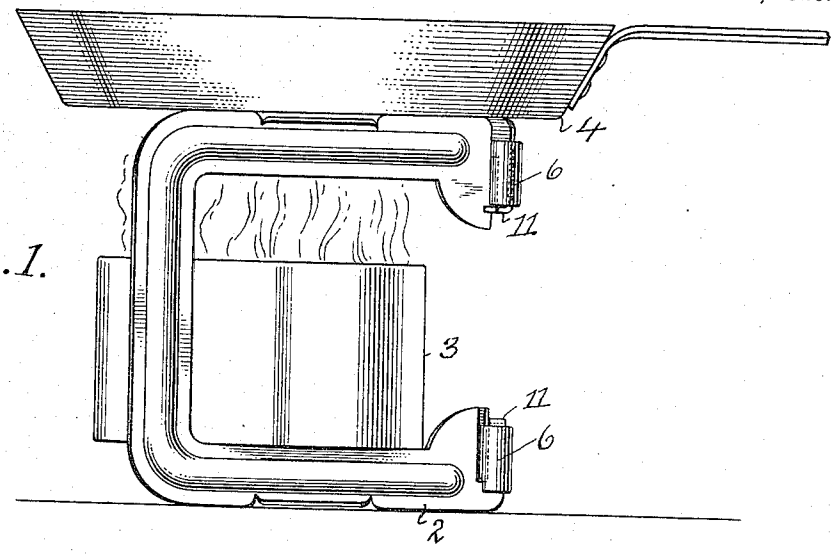


Fig. 1.

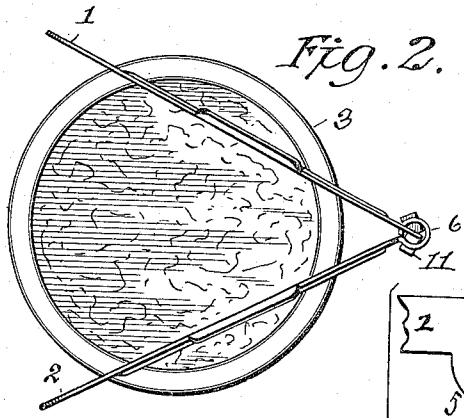


Fig. 2.

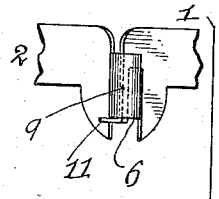
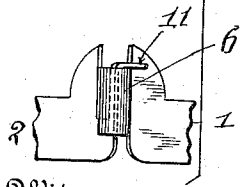


Fig. 3.



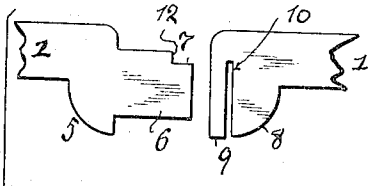
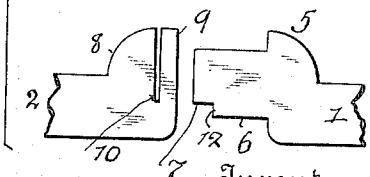


Fig. 4.



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UNITED STATES PATENT OFFICE.

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FOLDING STAND FOR PORTABLE HEATERS.

1,173,207. Specification of Letters Patent. Patented Feb. 29, 1916.

Application filed July 14, 1915. Serial No. 39,771.

To all whom it may concern:

Be it known that I, JOSEPH B. MURRAY, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented a certain new and useful Improvement in Folding Stands for Portable Heaters, of which the following is a specification.

The invention is a folding stand for portable heaters, and comprises two U-shaped members hinged together at the ends of their arms, and provided with means for limiting the angle of separation. A circular member—preferably a cam containing fuel—is inserted between said members when opened at the limited angle, and operates as a lock to hold said members in adjusted position. The invention also includes the construction of the hinges, as hereinafter more particularly set forth.

In the accompanying drawings—Figure 1 is an elevation of my portable heater support in position for use. Fig. 2 is a top view. Fig. 3 is an edge elevation of the completed hinge. Fig. 4 shows the manner in which the ends of the arms of the U-shaped members are formed to produce the hinge pins and tubular portions receiving the same.

Similar numbers of reference indicate like parts.

My support comprises two U-shaped members 1, 2, preferably produced by stamping from sheet metal. These parts are hinged together at the ends of their arms, so that they may be folded flat one upon the other, for transportation or packing, or opened out at an angle to one another, as shown in plan in Fig. 2. When so opened, a circular member, here a cylindrical can 3, containing solidified alcohol or other fuel, is placed between the members 1, 2 so as to rest upon the upper edges of the lower arms of said members. The object to be heated, such as the pan 4, is placed upon the upper edges of the upper arms of the members 1, 2, as shown in Fig. 1. The hinges between members 1, 2 are preferably constructed as follows: On an arm of each member 1, 2 is a shoulder 5 and an end portion 6, having a notch 7. On each of the remaining arms of said members is a shoulder 8, and a pin 9 formed by recesssing said arm at 10. The end portions 6 are curled over to form the tubular parts of the hinges into which the pins 9 are inserted, the protruding ends of said pins being bent over, as shown at 11. When the members 1, 2 are opened, as shown in Fig. 2, the shoulders 12 formed by notches 7 form stops which limit the angle of separation of said members. The bent over ends of pins 9 also bear against said members. The principal object of bending over said ends, however, is to prevent withdrawal of said pins from said tubular portions. The can 3 is put in place after the members 1, 2, have been separated at the limited angle. It then meets the shoulders 5, 8 on the lower arms of said members, holds said members asunder, so that they get a firm bearing on the stops 12 and acts as a lock to retain said members in adjusted position.

I claim:

1. A portable heater stand formed of two U-shaped members hinged together at the ends of their arms, the ends of the arms of each member being hinged to the corresponding ends of the arms of the other member, and means for limiting the angle of separation of said members.

2. A portable heater stand formed of two U-shaped members hinged together at the ends of their arms, the ends of the arms of each member being hinged to the corresponding ends of the arms of the other member, means for limiting the angle of separation of said members, and means for locking said members when separated at said limited angle.

3. A portable heater stand, comprising two U-shaped members hinged together at the ends of their arms, means for limiting the angle of separation of said members, and a circular member adapted to enter between said hinged arms and rest upon the lower arms of said U-shaped members and to retain said members in open position when separated at said limited angle.

4. A portable heater stand, comprising two U-shaped members hinged together at the ends of their arms, the ends of the arms of each member being hinged to the corresponding ends of the arms of the other member, means for limiting the angle of separation of said members, and a cylindrical fuel can adapted to enter between said hinged arms and rest upon the lower arms of said U-shaped members when separated at said limited angle.

5. A portable heater stand, comprising two U-shaped members, each member hav-

ing integrally formed at the ends of its arms respectively a hinge pin and a tubular portion adapted to receive said pin, the pin of one member being inserted in the tubular portion of the other member, and means on said tubular portion for limiting the angle of separation of said members.

In testimony whereof I have affixed my signature in presence of two witnesses.

JOSEPH B. MURRAY.

Witnesses:
GERTRUDE T. PORTER,
MAY T. MCGARRY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."