This invention relates to certain new and useful improvements in camp stoves or picnic grills. It has for one of its objects to provide a device of this character which is so designed as to be readily folded into a compact condition when not in use and just as readily unfolded for use.

Another object of the invention is the provision of a portable camp stove or grill which is simple, compact and inexpensive in construction, whose parts are foldably interconnected as a self-contained unit and are not liable to become detached or lost, and wherein those elements thereof constituting the fire-box walls form a protective shield or apron for the grill plate in the folded position of the stove to prevent the greasy plate coming in contact with one's clothes or the upholstery of the vehicle in which the stove may be carried.

Other features of the invention reside in the construction and arrangement of parts herein-after described and particularly pointed out in the appended claims.

In the accompanying drawings:

Figure 1 is a perspective view of my camp stove or picnic grill in its folded or collapsed position. Figure 2 is a perspective view thereof in its unfolded or operative position. Figure 3 is an enlarged fragmentary transverse section taken substantially in the plane of line 3—3, Figure 2. Figure 4 is a sectional view, similar to Figure 3, showing the grill in its partially folded condition preparatory to collapsing the frame. Figure 5 is an enlarged cross section taken on line 5—5, Figure 1. Figure 6 is an enlarged longitudinal section taken on line 6—6, Figure 3. Figure 7 is an enlarged fragmentary horizontal section taken on line 7—7, Figure 7. Figure 8 is a fragmentary end view showing a modified connection between the grill plate and the frame.

Similar characters of reference indicate corresponding parts throughout the several views.

This improved camp stove, which has been designed for burning wood, charcoal or like fuel, is particularly intended for picnics, touring and camping trips, and for wiener roasts and the like. In the preferred embodiment of the invention shown in the drawings, the same is a self-contained portable unit which can be compactly folded when not in use and which can be readily unfolded for use, and in its general organization consists of a collapsible frame adapted to be supported upon the ground and including portions which form a trough to constitute a fire-box, and a grill adapted to be supported over the fire-box and to be compactly folded within the collapsed frame when the stove is not in use.

The frame preferably consists of a pair of collapsible, intersecting leg members or sections 5 and 11 which are pivoted to each other intermediate their ends, as indicated at 12, so that these leg-sections may assume the unfolded supporting position shown in Figures 2, 3 and 4 or the collapsed overlying position shown in Figures 1 and 5. Secured to the upper portions of the leg sections 10, 11 and joining them together as a unit, are side walls or tie plates 13, 14 which extend generally in the direction of those sections and which, in the unfolded position of the frame, form a trough or fire-box 14, it being noted in Figures 2 and 3 that these walls converge downwardly to form a fire-box of comparatively large capacity, the lower ends of these walls being spaced apart to form a draft opening.

As shown in Figure 3, it will be further noted that these side walls 13 are disposed substantially in a plane adjoining the outer edges of the respective leg sections 10, 11, so that when the latter are folded to the position shown in Figures 1 and 5, a pocket or compartment 18 is formed between the side walls for a purpose which will hereinafter appear, such pocket being open at its top and bottom sides, and closed at its ends by the upper portions of the respective leg sections.

Adapted for disposition over the fire-box in the unfolded position of the foldable frame 10, 11 and for insertion into the pocket 18 in the folded or collapsed position thereof, is a grill plate 16 which is so mounted on the frame as to be capable of movement relative thereto to assume the respective positions mentioned. To this end, as shown in Figures 2, 3 and 4, the grill plate, which may be of any suitable construction, is connected to the upper ends of one set of companion leg-sections, say the leg-sections 11, so as to be capable of a combined swinging and linear or longitudinal movement with respect to the leg-frame, the means shown in the drawings for accomplishing this purpose consisting of pivots 17 secured to said leg-sections 11 and engaging corresponding longitudinal slots 18 in the end walls of the grill plate. In the horizontal or operative position of the grill plate, its free end rests upon the upper end of one of the side wall 13, and if desired the grill plate may be provided with suitable notches 16 which interlock with such wall, in the manner shown in Figure 3, to prevent its accidental lateral dis-
placement relative to the leg-frame. At its free end, the grill plate 18 has a suitable handle 20 for manipulating it to its respective positions, such handle also serving as a means for carrying the stove when collapsed, as shown in Figure 1.

By mounting the legs 19, the grill 6, at the plate 18 in this manner, it can be readily swung to the position shown by full lines in Figures 2 and 3 to an operative position for roasting, broiling or cooking, or it may be swung rearwardly to an open, substantially pendant position, shown by dotted lines in Figure 3 to uncover the firebox 14 and render it accessible for introducing the charcoal or wood and making the fire, after which it may be swung to its operative position. When collapsing the stove for transporting or storage purposes, the grill plate is shifted transversely of the leg frame 10, to the horizontal position shown by dotted lines at the top of Figure 5, after which it is swung downwardly and inwardly into the fire-box to a position in allignment with the companion leg-sections 11, as shown by full lines in Figure 8, whereon a draft opening is formed in the bottom of the fire-box to the opposing lower edges of the walls 13 until its movement is arrested by the outer ends of the pivot-engaging slots 18 abutting against the pivots 17 which position is shown by dotted lines in Figure 4. The leg-sections 10, 11 are now folded together to the position shown in Figures 1 and 5, in which position the grill plate 18 is housed in the resulting pocket 19 with the side walls 13 constituting guard plates or aprons for protecting the greasy grill, the inner edges of which are reinforced by the clothes of the user or with the upholstery of the car in which the stove is carried. It will be noted in Figure 4 that the handle faces downwardly and upon bodily reversing the collapsed stove to the position shown in Figure 3, the grill-handle 23 faces upwardly and serves as a convenient handle for carrying the stove, the downward displacement of the leg-frame relative to the grill being prevented by the pivot pins 17 contacting the outer ends of the leg-slots 18, the whole making for a very compact unit which requires but little space to store it and which can be conveniently carried about.

In Figure 8, I have shown a modified form of flexible connection between the grill plate 18 and the leg-frame, whereby the grill may be moved to the respective positions heretofore described. This connection consists of a link 21 pivoted at one end, as indicated at 22, to each of the leg-sections 11, while its opposite end is pivoted at 23 to the adjoining end of the grill plate.

I claim as my invention:

1. A device of the character described, comprising a frame including, at each end thereof, a pair of legs pivoted intermediate their ends and side walls connecting the upper portions of said legs and forming a fire-box in the unfolded position of the frame and a sheathing for a grill plate 18, the said legs including a laterally-displaceable hinged connection with said frame to assume an operative position over said walls or a position alongside and between the latter in the collapsed position of the frame.

2. A device of the character described, comprising a frame including, at each end thereof, a pair of legs pivoted intermediate their ends and side walls connecting the upper portions of said legs and forming a fire-box in the unfolded position of the frame and a sheathing for a grill plate 18, the said legs including a laterally-displaceable hinged connection with said frame to assume an operative position over said walls or a position alongside and between the latter in the collapsed position of the frame.
idly connecting the outer edges of those portions of corresponding legs of each pair above the pivot point, and a grill having means adjacent one side edge thereof providing a permanent, slotted, pivotal connection with the upper end of a corresponding leg of each pair, whereby said grill may be moved laterally and then folded inwardly upon the side wall adjacent its pivoted edge.

8. A device of the character described, comprising a collapsible frame including, at each end thereof, a pair of legs pivoted intermediate their ends and opposing downwardly-converging side walls connected at their ends to the upper portions of the corresponding legs of each pair and forming a fire-box in the unfolded position of the frame and with the walls disposed in substantially parallel spaced relation in the folded position of said frame to form a pocket, and a grill plate connected to the frame at one side thereof and having means providing a pivotal and lateral sliding connection with a corresponding leg of a pair, whereby the grill has a combined swinging and linear movement relative to the frame to assume an operative position over the fire-box walls in the unfolded position of the frame and a position within said pocket in the folded position of said frame.

9. A camp stove, comprising a frame including, at each end thereof, a pair of legs pivoted intermediate their ends and side walls connecting the upper portions of the corresponding legs of a pair and forming a fire-box in the unfolded position of the frame and a sheathing for a grill plate in its folded position, and a grill plate constituting a self-contained part of the frame to assume an operative position over said walls in the unfolded position of the frame and a position between said walls in the folded position of the frame, corresponding legs of each pair having pivots thereon and the grill plate having slots engaging said pivots.

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