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1,515,785

J. McDONALD

STOVEPIPE GUIDE

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Fig. 1.

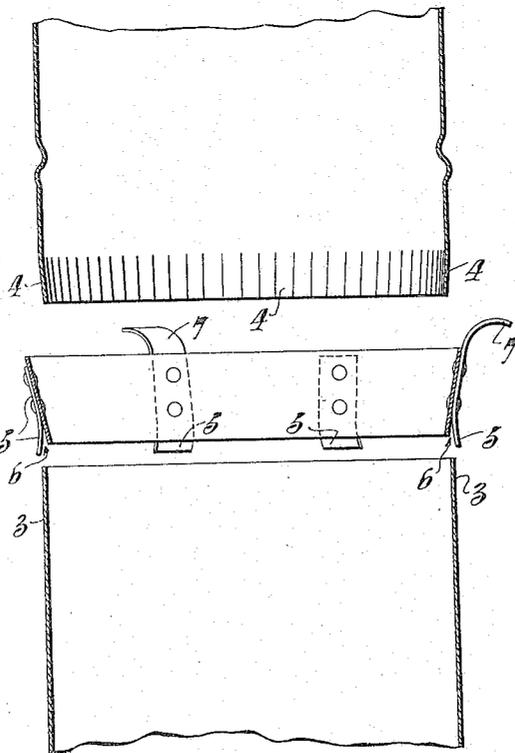
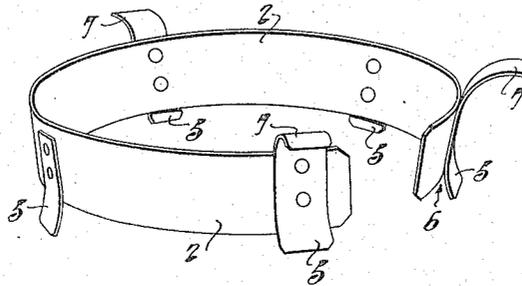


Fig. 2.

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STOVEPIPE GUIDE.

Application filed November 6, 1923. Serial No. 673,150.

To all whom it may concern:

Be it known that I, JOHN McDONALD, citizen of the Dominion of Canada, residing at Vancouver, in the Province of British Columbia, Canada, have invented certain new and useful Improvements in Stovepipe Guides, of which the following is a specification.

This invention relates to a means providing easy entrance of one end of a stove pipe into the adjacent end of another length. While it is comparatively easy to connect adjacent lengths of stove pipe while they are new, when the pipes, after having been used for some time, have been taken down for cleaning, the operation gives a considerable amount of trouble and the condition of the pipes is not such that they can be freely handled.

The invention, which is the subject of this application, provides a flared mouth ring which may be attached to the end of one pipe, which ring enables the end of the other length to be easily entered, and thereafter the mouth ring is readily removed.

In the drawings which accompany this application—

Fig. 1 is a perspective view of the mouth ring, and

Fig. 2 shows in vertical section its relation to the adjacent ends of the stove pipe lengths, the same being drawn apart.

The device comprises an open ring 2 of thin sheet metal, which is shaped to be slightly conical, and when the ends are brought together, the smaller diameter of this ring is such as will readily pass within the larger diameter 3 of one length of stove pipe, and the larger diameter of the ring such as will freely admit the smaller or crimped end 4 of the other length.

At intervals apart around the outside of this ring 2 clips 5 are secured to it to project beyond the edge of the smaller end, and the projecting ends of which clips are angled slightly away from the outer surface of the ring with sufficient space 6 between each clip and the ring to permit this edge of the ring to pass readily into the stove pipe with the clips outside the same, see Fig. 2.

The two clips, which are near the open ends of the ring 2, and the one on the opposite side of the band, are upwardly pro-

duced beyond the edge of the larger diameter of the band and are outwardly turned as at 7 to form finger engagements.

In use, the edge of the smaller diameter of the ring 2 is passed within the end of the stove pipe having the full or larger diameter, with the clips 5 outside the pipe thickness. So placed the ring 2 forms a flared mouthpiece through which the smaller or crimped end of the other pipe may be passed into the stove pipe end. After such insertion, the ring 2 is readily withdrawn by the finger engagements 7 and removed from connection with the stove pipe.

This mouth ring 2 enables stove pipes to be readily connected together, even although the ends may be distorted by continued use, and renders comparatively easy, what is well known as an awkward and objectionable job for the unfortunate on whom the work of taking down and cleaning the stove pipes devolves.

Having now particularly described my invention, I hereby declare that what I claim as new and desire to be protected in by Letters Patent, is:

1. Means for inserting the end of one stove pipe into another, said means comprising a ring having free ends, one edge of which ring is adapted for insertion into the end of one stove pipe while the other edge is outwardly flared therefrom, clips secured at intervals apart around the outside of the ring with a space between them and the ring, one end of each of said clips projecting beyond the edge of the smaller end of the ring.

2. Means for inserting the end of one stove pipe into another, said means comprising a ring having free ends, one edge of which ring is adapted for insertion into the end of one stove pipe while the other edge is outwardly flared therefrom, clips secured at intervals apart around the outside of the ring with a space between them and the ring, one end of each of said clips projecting beyond the edge of the smaller end of the ring, and the opposite ends of certain of such clips being produced beyond the other edge of the ring and outwardly turned to form finger engagements.

In testimony whereof I affix my signature.

JOHN McDONALD.