

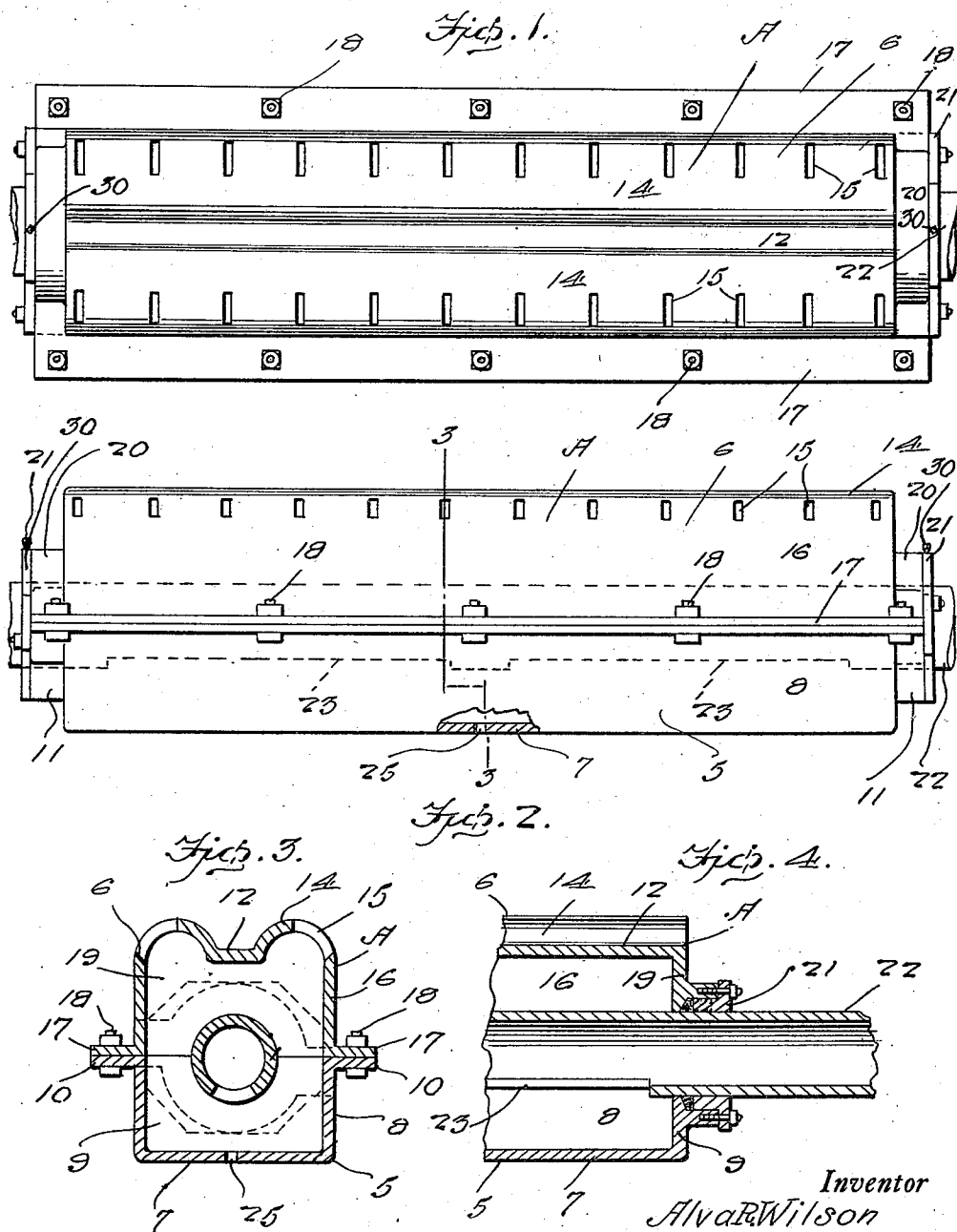
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GAS BURNER

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GAS BURNER.

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The present invention relates to improvements in gas burners and particularly of that type shown in the application filed by me on April 27, 1926, Serial No. 104,961.

5 An important object of the invention is to improve upon the structure by making the same more economical in use and in manufacture and to provide a structure of a knock-down nature, so that the parts may be readily and easily assembled or disassembled.

10 With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing:—

20 Figure 1 is a top plan view of the gas burner embodying the features of my invention,

Fig. 2 is a side elevation thereof, a slight portion being shown in section,

25 Fig. 3 is a transverse section taken substantially on the line 3—3 of Fig. 2, and

Fig. 4 is a fragmentary longitudinal section through one end of the burner.

Referring to the drawing in detail, it will be seen that the letter A denotes generally a drum which is formed in two sections 5 and 6. The bottom section 5 includes a bottom wall 7, side walls 8 rising right angularly from and end walls 9. The side walls are provided with outwardly extending flanges 10. The end walls 9 are provided with semi-cylindrical collars 11. The top section 6 includes a top wall 12 having upwardly convexed longitudinally extending semi-cylindrical portions 14, one at each edge thereof. These semi-cylindrical portions 14 are provided with transverse slots 15. The semi-cylindrical portions 14 at their outer edges merge into side walls 16 having flanges 17 which are adapted to be engaged with flanges 10 by bolts 18 or in any other suitable manner.

50 The top section also includes end walls 19 having semi-cylindrical collars 20 complementary to collars 11 for forming cylindrical collars to receive stuffing boxes 21. A pipe 22 extends through the stuffing boxes and longitudinally through the drum A and is provided within the drum A with a pair of longitudinally extending slots 23 at the bottom thereof. The gas and air enters the

pipe 22 from both ends thereof, and outlets through the slot 23 and then passes upwardly and outwardly through the slots 15, at which point it is burnt.

A drain opening 25 is provided centrally in the bottom 7. From the above detailed description, it will be seen that I provide a burner having the efficiency of the burner disclosed in my said pending application, but the structure of the present burner is 65 capable of being easily assembled and disassembled in order that the interior of the drum may be cleaned when desired in case it should become clogged up for any reason. The set screws 30 prevent the pipe 22 from 70 turning.

The present structure allows the various parts to be cast and therefore enable a cheaper manufacture of the device than in the structure shown in my pending applica- 75 tion.

It is thought that the construction, utility, and advantages of this improvement will now be clearly understood by those skilled in this art without a more detailed description thereof. The present embodiment of the invention has been disclosed in detail since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the 85 above description.

Apparently, numerous changes in the details of construction and in the combination and arrangement of parts may be resorted to as do not depart from the spirit or scope 90 of the invention as hereinafter claimed.

Having thus described my invention, what I claim as new is:—

1. A gas burner of the class described including a drum formed in two sections, 95 one section including a bottom, side walls rising from the bottom and end walls rising from the bottom, said end walls being provided with semi-cylindrical collars projecting outwardly, said side walls being provided with outwardly projected flanges, the other section including a top wall, side walls and end walls, the end walls being provided with semi-cylindrical collars complementary to the collars of the said one section and said 105 side walls of said other section being provided with flanges, fastening elements piercing openings in the flanges for holding the sections together, stuffing boxes in the cylinders formed by the complementary collars, 110

and a pipe extending through the stuffing boxes and through the drum and having openings therein.

2. A gas burner of the class described including a drum formed in two sections, one section including a bottom, side walls rising from the bottom and end walls rising from the bottom, said end walls being provided with semi-cylindrical collars projecting outwardly, said side walls being provided with outwardly projecting flanges, the other section including a top wall having upwardly and outwardly convex cylindrical portions extending longitudinally thereof and provided with transversely disposed slots, side

walls depending from the top walls, and end walls depending from the top walls, the end walls being provided with semi-cylindrical collars complementary to the collars of the said one section, said side walls of said other section being provided with flanges, fastening elements piercing openings in the flanges for holding the sections together, stuffing boxes in the cylinders formed by the complementary collars, and a pipe extending through the stuffing boxes and through the drum and having openings therein.

In testimony whereof I affix my signature.

ALVA RAYMOND WILSON.