

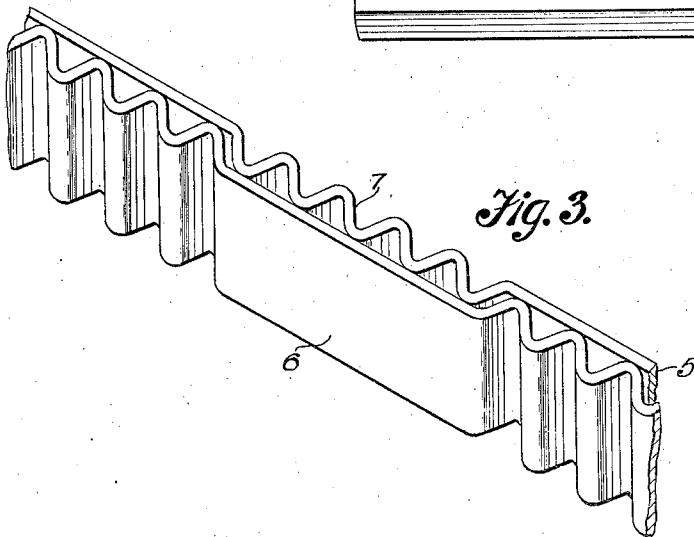
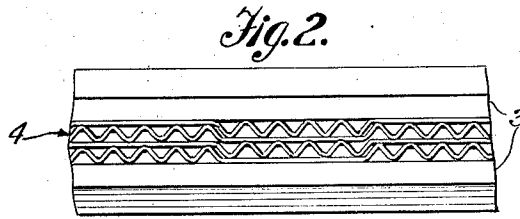
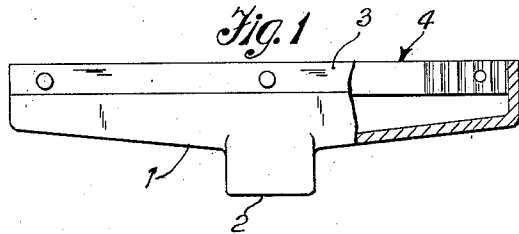
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RIBBON BURNER

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RIBBON BURNER

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4 Claims. (Cl. 158-99)

The present invention has for its object to provide a form of metal strip which shall be particularly well adapted for placement side by side to form a grid in a burner head for dividing a stream of combustible mixture into a multitude of smaller streams for burning in the form of relatively short flames.

In the accompanying drawing wherein the preferred form of the invention is shown:

Fig. 1 is a side elevation (with a part broken away) of a burner head embodying the present invention;

Fig. 2 is an enlarged plan view of a sufficient portion of Fig. 1 to show the general form of the improved grid, and

Fig. 3 is an enlarged perspective view of a sufficient portion of the grid to show the form of the strips of which the grid is comprised.

In both Figs. 2 and 3 the size of the crimps in the strips as compared with the thickness of the strip has been considerably exaggerated for clarity of illustration.

In the drawing, I indicates a hollow burner head having an inlet 2 for combustible mixture and having a relatively long and narrow gas discharge passage in its upper side, the passage being formed by the side walls 3. Mounted in said passage for dividing the issuing gas stream into a multitude of smaller streams for burning is grid 4 comprising a plurality of specially formed metal strips 5 arranged side by side in abutting relation.

As best shown in Fig. 3, each strip 5 comprises an alternating series of flat portions 6 and groups of transverse crimps or corrugations 7, each group of crimps being of the same length as each flat portion and all of the crimps being of the same size. To make up the grid 4 the strips are arranged as shown in Figs. 2 and 3,—that is to say,

with the flat portions of one strip opposite the groups of crimps of the next adjacent strip with the result that the flats of a strip between two other strips serve as partitions between the opposite crimped portions. The present invention therefore makes it possible to make use of similar strips in making up a ribbon burner.

As shown in Figs. 2 and 3, the surface of the flats and the crests of the crimps at one side of the strip are all in one and the same plane primarily because the crimps are most readily formed in this way, considering that the strips are of relatively thin sheet metal.

What I claim is:

1. As an article of manufacture for a ribbon burner, a metal strip having an alternating series of flat portions and groups of transverse crimps, each group of crimps being of the same length as each flat portion.

2. In the article specified in claim 1, the surface of the flat portions and the crests of the crimps at one side of said strip being in the same plane.

3. In a burner, a grid for dividing a stream of gas into a multitude of smaller streams comprising a plurality of metal strips arranged side by side, each strip having a series of flat portions and groups of transverse crimps, each group of crimps being of the same length as each flat portion and longitudinally alternated therewith along the strip, the flat portions being arranged opposite the groups of crimps of the next adjacent strip to form the grid.

4. In the grid specified in claim 3, each strip having the surface of its flat portions and the crests of its crimps at one side of the strip in the same plane.

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