Claims

1. A foraminous burner liner (28) for a gas abatement system, said burner liner comprising a hollow body defined by a wall, the wall comprising a plurality of interconnected substantially concentric layers (4, 5);
wherein each layer of the wall comprises a substantially regular openwork mesh;
wherein the substantially regular openwork mesh of each layer is configured such that it is out of phase with one or more adjacent layers, and wherein the wall comprises sufficient layers arranged such that the wall is optically opaque when viewed externally in any radially inward direction normal to the wall; wherein,
the wall comprises from 3 to 20 layers;
each substantially helical strut completes a part of a helix turn (8, 9), preferably less than one helix turn;
each layer comprises a plurality of circumferentially spaced right-handed substantially helical struts (9) coupled to a plurality of circumferentially spaced left-handed substantially helical struts (8); and
a plurality of radially extending spacers in the form longitudinally extending, offset staves (21, 22) couple a first layer to an adjacent layer.

2. The foraminous burner liner according to either of claims 1 or 3, wherein the wall comprises a greater number of layers than required to achieve optical opacity, preferably at least twice the number of layers required to achieve optical opacity, more preferably at least three times the number of layers required to achieve optical opacity.

3. The foraminous burner liner according to any preceding claim, wherein the wall comprises from 9 layers.

4. The foraminous burner liner according to any preceding claim, wherein the plurality of interconnected layers are concentrically arranged.

5. The foraminous burner liner according to any preceding claim, wherein the hollow body is substantially tubular or frustoconical.

6. The foraminous burner liner according to any preceding claim, wherein an outermost layer of the wall is coupled to a perforated sheet defining an outer surface of the

foraminous burner liner, preferably wherein perforations of the sheet are substantially aligned with openings in the outermost layer of the wall.

7. An additive manufactured foraminous burner liner according to any preceding claim, preferably wherein the burner liner is manufactured using powder bed fusion.