CLAIMS

1. A radiant burner for treating an effluent gas stream from a manufacturing processing tool, comprising:

a plurality of treatment chambers, each treatment chamber having an effluent stream inlet for supplying a respective portion of said effluent gas stream to that treatment chamber for treatment therewithin, wherein said burner comprises a separating structure separating a pair of adjacent treatment chamber, said separating structure at least partially defining each adjacent pair of treatment chambers and wherein said separating structure comprises a pair of foraminous walls through which treatment materials pass for introduction into both said adjacent pair of treatment chambers, each foraminous wall at least partially defining one of said adjacent pair of treatment chambers.

2. The radiant burner of any preceding claim, wherein said plurality of treatment chambers are arranged as a row of treatment chambers and each separating structure is located between each adjacent pair of treatment chambers within said row.

3. The radiant burner of any preceding claim, wherein said plurality of treatment chambers are arranged as a matrix comprising a plurality of rows of treatment chambers and each separating structure is located between each adjacent pair of treatment chambers within each row

4. The radiant burner of any preceding claim, wherein said separating structure tapers in a direction of flow of said portion of said effluent stream.

5. The radiant burner of any preceding claim, wherein said separating structure comprises a foraminous connecting portion connecting said pair of foraminous walls along an edge.

6. The radiant burner of claim 5, wherein said connecting portion is curved.

7. The radiant burner of any preceding claim, wherein said separating structure comprises a treatment material inlet for supplying said treatment materials into a void defined by said separating structure.

8. The radiant burner of any preceding claim, comprising an end structure at least partially defining an end treatment chamber, said end structure comprising a foraminous wall through which treatment materials pass for introduction into said end treatment chamber and a non-foraminous wall, said foraminous wall at least partially defining said end treatment chamber.

9. The radiant burner of claim 8, wherein said end structure comprises a treatment material inlet for supplying said treatment materials into a void defined by said end structure.

10. The radiant burner of any preceding claim, wherein said treatment materials comprise at least one of air and fuel.

11. The radiant burner of any preceding claim, wherein each treatment chamber comprises a ceiling defining said effluent stream inlet for supplying said respective portion of said effluent gas stream to that treatment chamber.

12. The radiant burner of any preceding claim, wherein each treatment chamber comprises an open face through which said treated effluent gas stream exhausts.

13. The radiant burner of any preceding claim, wherein each of said plurality of treatment chambers exhaust said treated effluent stream to a common cooling chamber.

14. The radiant burner of any preceding claim, comprising a housing configured to receive each separating structure, said housing at least partially defining each treatment chamber.

15. The radiant burner of claim 14, wherein said housing is configured to receive each end structure.

16. The radiant burner of claims 14 or 15, wherein portions of said housing which at least partially define each treatment chamber are foraminous for supplying a purge gas stream to that treatment chamber.

17. The radiant burner of any one of claims 14 to 16, wherein said housing defines a plenum to supply said purge gas stream to said portions of said housing.

18. The radiant burner of claims 16 to 17, wherein said portions of said housing which at least partially define each treatment chamber are faceted to extend into said treatment chamber.

19. A radiant burner method for treating an effluent gas stream from a manufacturing processing tool, comprising:

a plurality of treatment chambers, each treatment chamber having an effluent stream inlet for supplying a respective portion of said effluent gas stream to that treatment chamber for treatment therewithin, wherein said burner comprises a separating structure separating a pair of adjacent treatment chambers, said separating structure at least partially defining each adjacent pair of treatment chambers and wherein said separating structure comprises a pair of foraminous walls through which treatment materials pass for introduction into both said adjacent pair of treatment chambers, each foraminous wall at least partially defining one of said adjacent pair of treatment chambers.