We Claim:

1. A sealing arrangement for sealing a gas leakage path between a first gas flow and a second gas flow at an end of a rotating rotor disposed in a stationary housing of a rotary regenerative device, the sealing arrangement comprising:

a seal gasket disposed between a seal seat of the housing facing the rotor and the end of the rotor;

wherein the seal seat of the housing comprises an annular rim circumscribing an open area and a seal seat plate extending diametrically across the open area between diametrically opposite portions of the annular rim and the seal gasket has an outer annular ring circumscribing an open area and a diametrically extending member spanning the open area;

wherein the seal gasket comprises a first gasket member and a second gasket member;

wherein the first gasket member comprises of a relatively less elastomeric material as compared to the second gasket member and the second gasket member comprises a relatively more elastomeric material as compared to the first gasket member.

2. The sealing arrangement as recited in claim 1 wherein the first gasket member and the second gasket member are disposed in back-to-back relationship, the first gasket member facing the rotor and the second gasket member facing the seal seat of the housing.

3. The sealing arrangement as recited in claim 1 wherein the first gasket member comprises a solid neoprene rubber and the second gasket member comprises a sponge-like neoprene rubber.

4. A rotary regenerative scrubber for removing a selected gaseous component from a flow of gas to be cleaned, the scrubber comprising:

a housing defining a first flow passage for a flow of gas to be cleaned and a second flow passage for a flow of regenerating gas;

a rotor assembly disposed in the housing for rotation through the first flow passage and the second flow passage, the rotor assembly carrying a regenerative absorbent material capable of absorbing the selected gaseous component;

a first seal gasket disposed between a first seal seat of the housing facing a first end of the rotor assembly and the first end of the rotor assembly; and

a second seal gasket disposed between a second seal seat of the housing facing a second end of the rotor assembly and the second end of the rotor assembly;

wherein the first seal gasket has an outer annular ring circumscribing an open area and a diametrically extending member spanning the open area;

wherein the first seal gasket comprises a first gasket member and a second gasket member;

wherein the first gasket member comprises a relatively less elastomeric material as compared to the second gasket member and the second gasket member comprises a relatively more elastomeric material as compared to the first gasket member.

5. The rotary regenerative scrubber as recited in claim 4 wherein the rotor assembly comprises a rotor mounted to a shaft for rotation with the shaft, the rotor having a central hub, a circumferential wall, and a plurality of radially directed partitions extending from the central hub to the circumferential wall.

6. The rotary regenerative scrubber as recited in claim 5 wherein the housing comprises:

a first housing section and a second housing section, the first housing section defining a defining a first gas manifold section and the second housing section defining a second gas manifold section, the first seal seat disposed across the first gas manifold and the second seal seat disposed across the second gas manifold.

7. The rotary regenerative scrubber as recited in claim 6 wherein the first seal gasket is disposed with the first gasket member facing the first end face of the rotor assembly and the second gasket member facing the first seal seat.

8. The rotary regenerative scrubber as recited in claim 7 wherein the first gasket member comprises a solid neoprene rubber and the second gasket member comprises a sponge-like foam neoprene rubber.

We Claim:

1. A sealing arrangement for sealing a gas leakage path between a first gas flow and a second gas flow at an end of a rotating rotor disposed in a stationary housing of a rotary regenerative device, the sealing arrangement comprising:

a seal gasket disposed between a seal seat of the housing facing the rotor and the end of the rotor;

wherein the seal seat of the housing comprises an annular rim circumscribing an open area and a seal seat plate extending diametrically across the open area between diametrically opposite portions of the annular rim and the seal gasket has an outer annular ring circumscribing an open area and a diametrically extending member spanning the open area;

wherein the seal gasket comprises a first gasket member and a second gasket member;

wherein the first gasket member comprises of a relatively less elastomeric material as compared to the second gasket member and the second gasket member comprises a relatively more elastomeric material as compared to the first gasket member; and

wherein the first gasket member and the second gasket member are disposed in back-to-back relationship, the first gasket member facing the rotor and the second gasket member facing the seal seat of the housing.

2. The sealing arrangement as recited in claim 1 wherein the first gasket member comprises a solid neoprene rubber and the second gasket member comprises a sponge-like neoprene rubber.

3. A rotary regenerative scrubber for removing a selected gaseous component from a flow of gas to be cleaned, the scrubber comprising:

a housing defining a first flow passage for a flow of gas to be cleaned and a second flow passage for a flow of regenerating gas;

a rotor assembly disposed in the housing for rotation through the first flow passage and the second flow passage, the rotor assembly carrying a regenerative absorbent material capable of absorbing the selected gaseous component;

a first seal gasket disposed between a first seal seat of the housing facing a first end of the rotor assembly and the first end of the rotor assembly; and

a second seal gasket disposed between a second seal seat of the housing facing a second end of the rotor assembly and the second end of the rotor assembly;

wherein the first seal gasket has an outer annular ring circumscribing an open area and a diametrically extending member spanning the open area;

wherein the first seal gasket comprises a first gasket member and a second gasket member;

wherein the first gasket member comprises a relatively less elastomeric material as compared to the second gasket member and the second gasket member comprises a relatively more elastomeric material as compared to the first gasket member; and

wherein the first seal gasket is disposed with the first gasket member facing the first end face of the rotor assembly and the second gasket member facing the first seal seat.

4. The rotary regenerative scrubber as recited in claim 3 wherein the rotor assembly comprises a rotor mounted to a shaft for rotation with the shaft, the rotor having a central hub, a circumferential wall, and a plurality of radially directed partitions extending from the central hub to the circumferential wall.

5. The rotary regenerative scrubber as recited in claim 4 wherein the housing comprises:

a first housing section and a second housing section, the first housing section defining a defining a first gas manifold section and the second housing section defining a second gas manifold section, the first seal seat disposed across the first gas manifold and the second seal seat disposed across the second gas manifold.

6. The rotary regenerative scrubber as recited in claim 3 wherein the first gasket member comprises a solid neoprene rubber and the second gasket member comprises a sponge-like foam neoprene rubber.