CLAIMS

What is claimed is:

1. An apparatus comprising:

a stationary sleeve;

a shaft operable to rotate with respect to the stationary sleeve;

a hub operable to rotate with respect to the stationary sleeve in response to the shaft rotating;

a backiron affixed to the hub and further affixed to the shaft; and

an adjustable gap forming component attached to the stationary sleeve and radially extending between the backiron and a base, wherein

the adjustable gap forming component forms radially extending gaps above and below the adjustable gap forming component, and the radially extending gaps above and below the gap forming component are parallel to each other

the adjustable gap forming component is movable with respect to the stationary sleeve, and

the adjustable gap forming component forms a gap with the backiron.

2. The apparatus of claim 1, wherein the hub lifts up axially when the hub rotates, and wherein the size of the gap with the backiron increases in response to axial lift of the hub.

3. The apparatus of claim 1, wherein the hub lifts up axially when the hub rotates, and wherein axial lift of the hub decreases in response to temperature increase.

4. The apparatus of claim 1, wherein the size of the gap with the backiron decreases in response to temperature increase.

5. The apparatus of claim 1, wherein the size of the gap with the backiron is less than 50 micrometers.