WHAT IS CLAIMED IS:

1. A seal assembly, comprising:

an upper body;

a lower body having a seal for sealing between a first wellhead system component and a second wellhead system component; and

a space-out mechanism disposed between the upper body and the lower body, the space-out mechanism comprising a ramp ring having at least one tapered surface,

wherein the upper body has at least one tapered surface configured to interface with the at least one tapered surface of the ramp ring,

wherein the ramp ring is configured to rotate relative to the upper body and the lower body, and

wherein the at least one tapered surface of the ramp ring and the at least one tapered surface of the upper body are configured to bear against each other to rigidize the system.

2. The seal assembly of claim 1, wherein the tapered surfaces of the ramp ring and the upper body are complementary.

3. The seal assembly of claim 1, wherein one or more of the ramp ring and the upper body have exactly three tapered surfaces.

4. The seal assembly of claim 1, further comprising one or more pressure-actuated release mechanisms coupled between the upper body and the lower body.

5. The seal assembly of claim 4, wherein at least one of the one or more pressure-actuated release mechanisms is a shear pin.

6. The seal assembly of claim 1, further comprising a spring coupled to the ramp ring and operable to circumferentially drive the ramp ring.

7. The seal assembly of claim 1, further comprising a safety mechanism disposed at an interface of the upper body with the ramp ring, wherein the safety mechanism is

configured to prevent rotation of the ramp ring with respect to the upper body until the safety mechanism is released.

8. A system, comprising:

a wellhead;

a casing hanger disposed at least partially in the wellhead; and

a seal assembly, comprising:

a space-out mechanism, the space-out mechanism comprising a ramp ring having at least one tapered surface;

an upper body having at least one tapered surface configured to interface with the at least one tapered surface of the space-out mechanism; and

a lower body having a seal for sealing between the casing hanger and the wellhead,

wherein the ramp ring is configured to rotate relative to the upper body and the lower body, and

wherein the at least one tapered surface of the ramp ring and the at least one tapered surface of the upper body are configured to bear against each other to rigidize the system.

9. The system of claim 8, wherein the tapered surfaces of the ramp ring and the upper body are complementary.

10. The system of claim 8, wherein one or more of the ramp ring and the upper body have three tapered surfaces.

11. The system of claim 8, further comprising one or more pressure-actuated release mechanisms coupled between the upper body and the lower body.

12. The system of claim 11, wherein at least one of the one or more pressure-actuated release mechanisms is a shear pin

13. The system of claim 8, wherein the wellhead is a subsea wellhead.

14. A method, comprising:

running a seal assembly into a wellhead housing until the seal assembly lands on a casing hanger;

locking the seal assembly to the wellhead housing;

lifting the seal assembly; and

actuating a space-out mechanism of the seal assembly to rigidize the seal assembly within the wellhead housing, wherein the space-out mechanism comprises a ramp ring having at least one tapered surface, wherein the ramp ring is configured to rotate relative to the upper body and the lower body; and

wherein the upper body of the seal assembly has at least one tapered surface; and

wherein the at least one tapered surface of the ramp ring and the at least one tapered surface of the upper body are configured to bear against each other to rigidize the system.

15. The method of claim 14, wherein actuating the space-out mechanism expands at least a portion of the space-out mechanism to rigidize the tubing hanger system within the wellhead housing.

16. The method of claim 14, wherein actuating the space-out mechanism comprises applying a pressure to the seal assembly to actuate one or more pressure-actuated release mechanisms.

17. The method of claim 14, further comprising sealing a space between the wellhead housing and the casing hanger via a seal located on a lower body of the seal assembly.

18. The method of claim 14, further comprising releasing a safety mechanism in response to movement of an actuator sleeve that locks the seal assembly to the wellhead housing, wherein the safety mechanism prevents rotation of the ramp ring with respect to the upper body until it is released.