CLAIMS

1. A drill bit, comprising:

a plurality of elements that extend and retract from a surface of the drill bit, wherein the elements in the plurality of elements are in fluid communication with each other to compensate for differing forces applied to such elements during a drilling operation, wherein retraction of a first element in the plurality of elements causes a second element in the plurality of elements to extend.

2. The drill bit of claim 1, wherein the plurality of elements includes one of: a pad; cutter; and at least one cutter and at least one pad.

3. The drill bit of claim 1, wherein the plurality of elements placed on one of: a single blade; at least two blades; and a blade and a side of the drill bit.

4. The drill bit of claim 1, wherein each of the elements in the plurality of elements includes a fluid chamber within which the element reciprocates in order to extend and retract from the surface of the drill bit.

5. The drill bit of claim 4 further comprising a hydraulic passage configured to enable the fluid communication among the elements in the plurality of elements.

6. The drill bit of claim 1, wherein each of the elements is substantially equally extended from the surface when the drill bit is idle.

7. A method of making a drill bit, comprising:

providing a drill bit having a plurality elements, wherein each such element is configured to extend and retract from a surface of the drill bit; and

providing fluid communication among each of the plurality of elements to compensate for differing forces applied to such elements during a drilling operation, wherein the fluid communication enables a first element in the plurality of elements to extend when a second element in the plurality of elements retracts due to a load applied on the second element.

8. The method of claim 7, wherein the plurality of elements includes one of: a pad; a cutter; and at least one pad and at least one cutter.

9. The method of claim 1, wherein the plurality of elements is placed on one of: a single blade; at least two blades; and a blade and a side of the drill bit.

10. The method of claim 7, wherein each element in the plurality of elements is configured to reciprocate in a chamber in order to extend and retract from the surface of the drill bit.

11. The method of claim 4 further comprising a hydraulic passage configured to enable the fluid communication among the elements in the plurality of elements.

12. A method of drilling a wellbore, comprising:

conveying a drill string having a drill bit at an end thereof, wherein the drill bit includes a plurality of elements that extend and retract from a surface of the drill bit, wherein the plurality of such elements are in fluid communication with each other to compensate for differing forces applied to such elements during drilling operations so that retraction of an element causes another element to extend; and

drilling the wellbore using the drill string.

13. The method of claim 12, wherein the plurality of elements is located on one of: a single blade; at least two blades; and a blade and a side of the drill bit.

14. The method of claim 12, wherein each of the elements in the plurality of elements reciprocates in a fluid chamber that has a fluid associated therewith.

15. The method of claim 14 further comprising providing a hydraulic passage configured to enable the fluid communication among the plurality of elements.

16. A drilling system, comprising:

a drilling assembly having a drill bit at an end thereof configured to drill a wellbore, wherein the drill bit includes a plurality of elements that extend and retract from a surface of the drill bit, wherein the elements in the plurality of elements are in fluid communication to compensate for differing forces applied to elements during drilling operations so that retraction of a first element in the plurality of elements causes a second element in the plurality of elements to extend.

17. The drilling system of claim 16, wherein the drilling assembly includes a sensor configured to provide information relating a downhole parameter during a drilling operation.