It is claimed:

1. A downhole tool assembly for use in a wellbore, the assembly for carrying a carried tool thereon and selectively releasing the tool assembly from the carried tool at a downhole location, the assembly comprising:

a tool mandrel extending longitudinally through the tool assembly; an upper mechanically operated assembly mounted on the mandrel for relative longitudinal and rotational movement with respect to the mandrel;

a lower mechanically operated assembly mounted on the mandrel for relative

longitudinal or rotational movement with respect to the mandrel, the lower mechanically operated assembly positioned below the upper mechanically operated assembly and capable of performing a task downhole,

wherein manipulation of the tool assembly by weight-down on the tool assembly and rotating the tool assembly, when located in the wellbore, actuates the lower mechanically operated assembly, and

wherein further manipulation of the tool assembly, after actuation of the lower mechanically operated assembly, actuates the upper mechanically operated assembly.

2. The downhole tool assembly of claim 1, wherein the upper mechanically operated assembly is a release assembly moveable between an attached position and a released position, wherein in the released position the tool assembly is released from the carried tool.

3. The downhole tool assembly of claim 2, wherein the release assembly is movable to an intermediate position before being moved to the released position.

4. The downhole tool assembly of claim 2 or claim 3, wherein the release assembly comprises a collet assembly.

5. The downhole tool assembly of claim 4, wherein the collet assembly is mounted for relative movement with respect to the mandrel.

6. The downhole tool assembly of claim 5, wherein the collet assembly includes a collet member for releasably attaching to the carried tool, a prop sleeve for selectively maintaining the collet member attached to the carried tool, and a prop nut for controlling movement of the prop sleeve.

7. The downhole tool assembly of claim 6, wherein weight-down on the tool assembly, when located in the wellbore, relatively moves the mandrel and collet member.

8. The downhole tool assembly of claim 7, wherein weight-down on the tool assembly moves the mandrel longitudinally with respect to the collet member.

9. The downhole tool assembly of claim 8, wherein weight-down on the tool assembly causes relative longitudinal movement of a J-slot profile defined on the mandrel and lugs extending from the prop sleeve into the J-slot profile.

10. The downhole tool assembly of claim 9, wherein weight-down results in relative movement of the prop sleeve and prop nut, the prop nut fixedly attached to the mandrel.

11. The downhole tool assembly of claim 8, wherein rotation of the tool assembly causes relative rotational movement of a J-slot profile defined on the mandrel and lugs extending from the prop sleeve into the J-slot profile.

12. The downhole assembly of any one of the preceding claims, wherein the lower mechanically operated assembly comprises a valve assembly.

13. The downhole tool assembly of any one of the preceding claims, wherein the lower mechanically operated assembly comprises a sliding sleeve assembly.

14. The downhole tool assembly of claim 13, wherein rotation of the mandrel causes rotation of the sliding sleeve.

15. The downhole tool assembly of claim 14, wherein rotation of the sliding sleeve causes longitudinal movement of the sliding sleeve with respect to the mandrel.

16. The downhole tool assembly of claim 15, wherein longitudinal movement of the sliding sleeve opens a valve element.

17. A method of performing an oilfield operation in a subterranean wellbore extending through a hydrocarbon-bearing zone, the method comprising the following elements:

a. running-in a tool string, an upper and a lower mechanically operated tool

assemblies positioned on the tool string, a carried tool releasably attached to the tool string;

b. actuating the lower mechanically operated tool assembly by manipulation of the tool string by placing weight-down on the tool string and rotating the tool string; and thereafter

c. actuating the upper mechanically operated tool assembly by further manipulation of the tool string.

18. The method of claim 17, wherein element a. comprises releasably attaching a liner hanger to a release assembly.

19. The method of claim 17 or claim 18, wherein the manipulation in element b. comprises rotating the tool string in a left-handed direction.

20. The method of any one of claims 17 to 19, wherein the manipulation in element b. comprises placing weight-down on the tool string before rotating the tool string.

21. The method of claim 20, wherein placing weight-down on the tool string longitudinally moves cooperating lugs along a J-slot profile of the upper mechanically operated tool assembly.

22. The method of claim 21, wherein the J-slot profile is defined on the exterior surface of a tool mandrel.

23. The method of claim 22, wherein the cooperating lugs extend from a collet release assembly into the J-slot profile.

24. The method of any one of claims 17 to 23, wherein actuation of the lower mechanically operated tool assembly comprises relative longitudinal movement of a moveable member of the lower mechanically operated tool assembly.

25. The method of claim 24, wherein the moveable member is a sliding sleeve.

26. The method of claim 25, wherein the sliding sleeve is biased to move by a biasing mechanism.

27. The method of claim 25 or claim 26, comprising moving the sliding sleeve and, in response thereto, closing a valve element.

28. The method of any one of claims 17 to 27, wherein the manipulation in element c. comprises placing weight-down on the tool string.

29. The method of any one of claims 17 to 28, comprising performing an operational task on the wellbore between elements b. and c.

30. The method of claim 29, wherein the operational task includes pumping fluid through the tool string.