CLAIMS

1. A linear shaped charge support structure configured to support a linear shaped charge in a canted configuration with at least part of the linear shaped charge canted about a longitudinal axis of the linear shaped charge.

2. A linear shaped charge support structure according to Claim 1, in which in the canted configuration a first cross section of the linear shaped charge is canted relative to a second cross section of the linear shaped charge, the first cross section located at a first location on the longitudinal axis of the linear shaped charge and the second cross section located at a second location on the longitudinal axis.

3. A linear shaped charge support structure according to Claim 1 or 2, in which the support structure comprises a track for supporting the linear shaped charge along a longitudinal surface of the linear shaped charge.

4. A linear shaped charge support structure according to Claim 1 or 2, comprising at least two substantially parallel rails for contacting the linear shaped charge.

5. A linear shaped charge support structure according to Claim 3, in which the track comprises a longitudinal track surface for contacting the longitudinal surface of the linear shaped charge,

in which optionally the longitudinal track surface comprises a slot extending along at least part of a longitudinal axis of the track.

6. A linear shaped charge support structure according to Claim 1 or 2, comprising a liner for a linear shaped charge.

7. A linear shaped charge support structure according to any preceding claim, comprising the linear shaped charge supported in the canted configuration by the linear shaped charge support structure.

8. A support frame comprising:

the linear shaped charge support structure according to any of Claims 1 to 6; and

a non-linear shaped charge support structure for supporting a non-linear shaped charge.

9. A support frame according to Claim 8, the non-linear shaped charge support structure comprising a liner for a non-linear shaped charge.

10. A support frame comprising:

the linear shaped charge support structure according to any of Claims 1 to 6 and having a first longitudinal axis, the linear shaped charge being a first linear shaped charge, and the linear shaped charge support structure being a first linear shaped charge support structure; and

a second linear shaped charge support structure having a second longitudinal axis and configured to support a second linear shaped charge.

11. A support frame according to Claim 10, in which the second linear shaped charge support structure is a linear shaped charge support structure according to any of Claims 1 to 6.

12. A support frame according to Claim 10 or 11, in which the first longitudinal axis and the second longitudinal axis lie in a common plane and an angle between the first longitudinal axis and the second longitudinal axis is substantially between 45 degrees and 135 degrees, between 60 to 120 degrees, between 75 to 105 degrees, between 80 to 100 degrees, between 85 to 95 degrees, between 87.5 to 92.5 degrees, substantially 90 degrees, or 90 degrees in the common plane.

13. A support frame according to any of Claims 10 to 12 comprising:

a third linear shaped charge support structure having a third longitudinal axis and configured to support a third linear shaped charge; and

a fourth linear shaped charge support structure having a fourth longitudinal axis and configured to support a fourth linear shaped charge.

14. A support frame according to Claim 13, in which:

the third linear shaped charge support structure is a linear shaped charge support structure according to any of Claims 1 to 6; and

the fourth linear shaped charge support structure is a linear shaped charge support structure according to any of Claims 1 to 6.

15. A support frame according to Claim 13 or 14, in which the first linear shaped charge support structure, the second linear shaped charge support structure, the third linear shaped charge support structure and the fourth linear shaped charge support structure are arranged respectively at a first side, a second side, a third side and a fourth side of a parallelogram.

16. A support frame according to Claim 15, comprising a first non-linear shaped charge support structure, configured to support a first non-linear shaped charge, and arranged at a first corner of the parallelogram.

17. A support frame according to Claim 16, comprising a second non-linear shaped charge support structure, configured to support a second non-linear shaped charge, and arranged at a second corner of the parallelogram, the second corner diagonally opposite the first corner.

18. A support frame according to Claim 17, in which:

the first linear shaped charge support structure and the second linear shaped charge support structure each abut the first non-linear shaped charge support structure; and

the third linear shaped charge support structure and the fourth linear shaped charge support structure each abut the second non-linear shaped charge support structure.

19. A linear shaped charge comprising an explosive element and a liner, the linear shaped charge configured in a canted configuration with a first cross section of the linear shaped charge canted relative to a second cross section of the linear shaped charge, the first cross section located at a first location on a longitudinal axis of the linear shaped charge and the second cross section located at a second location on the longitudinal axis.

20. A linear shaped charge according to Claim 19, which is a substantially non-flexible linear shaped charge.