CLAIMS:

1. A bomb casing defining a generally conical nose portion and a cylindrical body portion, at least one of the generally conical nose portion and/or the cylindrical body portion being formed from an additive manufacturing process, wherein the additive manufacturing process is cold-gas dynamic spraying of metal particles onto a support member, and in that, after cold-gas dynamic spraying has been completed, the support member is removed altogether, or in that, after cold-gas dynamic spraying has been completed, the support member is retained within the bomb casing at one or more locations and removed from other locations.

2. A bomb casing according to claim 1, wherein the generally conical nose portion and cylindrical body portion are integrally formed.

3. A bomb casing according to any one of the preceding claims, wherein the bomb casing is of unitary construction.

4. A bomb casing according to any one of the preceding claims, wherein the generally conical nose portion and/or the cylindrical body portion has substantially uniform metal properties along its length.

5. A bomb casing according to any one of the preceding claims, wherein the generally conical nose portion and/or the cylindrical body portion has substantially uniform metal properties across each transverse cross-section taken along its length.

6. A bomb casing according to claim 1, wherein the support member is configured to reflect an intended configuration of an internal surface of the bomb casing.

7. A bomb casing according to any one of the preceding claims, wherein the casing has metal properties defining a rupture mechanism and/or rupture seams; and wherein the rupture mechanism and/or rupture seams are defined by geometric features on a scaffold and/or combined with geometric features on a final outer shape of the bomb casing.

8. A bomb casing according to claim 7, wherein the rupture mechanism and/or rupture seams are lines of weakness extending axially and/or transversely along the cylindrical body portion.

9. A bomb casing according to claim 1, wherein the metal particles sprayed so as to form the generally conical nose portion include high density refractory metals or alloys.

10. A bomb casing according to any one of the preceding claims wherein the generally conical nose section has the following properties:

an ultimate tensile strength of greater than 1320 MPa;
a yield tensile strength of greater than 1200 MPa;
a minimum elongation-at-break of 11%;
a through hardness of greater than 44 Rockwell C scale; and
a density of greater than 7.86g/cc.

11. A bomb casing according to any of the claims 1, 6 and 9, wherein the metal particles as deposited onto the support member form interlaced layers; and wherein the interlaced layers extend in a circumferential direction.

12. A bomb casing according to claim 11, wherein interlaced layers forming the cylindrical body portion have an elongate dimension extending parallel to a longitudinal axis of the cylindrical body portion.