CLAIMS

1. Static metal seal (1), characterised in that it has, in transverse section, at least one hollow portion (9) configured to limit the force needed to crush the seal (1), and in that it includes an outer sealing layer (8), including a textured surface (3) configured to come into contact with surfaces to be sealed, said textured surface (3) including a network of depressions (4) spaced apart from one another on the textured surface (3), the depressions (4) being blind, not completely passing through the outer sealing layer (8), and not communicating with one another, and wherein the textured surface (3) is produced by way of a removal of material by laser.

2. Seal according to claim 1, characterised in that the outer sealing layer (8) alone forms the metal seal (1).

3. Seal according to claim 1, characterised in that it includes a metal core (6) enveloped in the outer sealing layer (8).

4. Seal according to claim 3, characterised in that the metal core (6) consists of a spring, particularly a helical spring with contiguous coils closed on itself and having, in the resting state, the shape of a toroid.

5. Seal according to claim 4, characterised in that the outer sealing layer (8), wherein the core (6) is inserted, has, in the resting state, the shape of a toric surface whereof the generating circle does not close on itself.

6. Seal according to any one of the preceding claims, characterised in that the outer sealing layer (8) includes a sealing barrier (2) and a contact sealing layer (5, 5a, 5b), particularly a layer of an electrolytic deposit (5a) and/or an additional sealing barrier (5b).

7. Seal according to claim 6, characterised in that the depressions (4) are present on the contact sealing layer (5, 5a, 5b) blindly or not.

8. Seal according to any one of the preceding claims, characterised in that the depth axis of each depression (4) is substantially perpendicular to the textured surface (3).

9. Seal according to any one of the preceding claims, characterised in that each depression (4) is defined by at least one wall hollowed out into the textured surface (3) that is substantially perpendicular to the textured surface (3).

10. Seal according to any one of the preceding claims, characterised in that a bearing area ratio, defined in the textured surface (3) by the surface without depressions (4) to total surface ratio of the textured surface (3), is less than 40%.

11. Seal according to any one of the preceding claims, characterised in that the textured surface (3) includes the network of depressions (4) in the form of circular holes, whereof the axes are particularly substantially perpendicular to the textured surface (3).

12. Seal according to claim 11, characterised in that a ratio between the pitch (E) of the circular holes (4), namely the distance between the centres of two adjacent circular holes (4), and the radius of a circular hole (4), corresponding to half of the diameter (D) of a circular hole (4), is less than or equal to 3.

13. Seal according to any one of claims 1 to 10, characterised in that the textured surface (3) includes the network of depressions (4) in the form of elongated-shaped holes, particularly oblong, elliptical and/or rectangular-shaped.

14. Seal according to claim 13, characterised in that the large axis of each elongated-shaped hole (4) is substantially parallel with the sealing line of the seal, and this in any point of the seal (1).

15. Seal according to any one of the preceding claims, characterised in that the metal seal (1) is a seal whereof the section is O-Ring or a seal whereof the section is C-Ring or a seal whereof the section is recumbent U-shaped.