Claims

1. Surgical instrument for use in dental surgery, having a processing device (1) and a protection device (8) wherein the processing device (1) has a shaft (2) having a connection region (3) and a hollow-cylindrical head (4), wherein at a distal edge (5) of the head (4) an active region (6) for cutting or grinding processing of bones is constructed, wherein the protection device (8) surrounds the head (4) at least in regions, wherein the protection device (8) surrounds the head (4) in such a manner that only a circular arc of the distal edge (5) acts as an active region (6) and wherein the protection device (8) is rotatably coupled to a bearing element (7) of the processing device (1), which bearing element (7) extends inside the head (4) at least in regions.

2. Surgical instrument according to claim 1, characterised in that the bearing element (7) extends in an axial direction, in particular from the base (9) of the head (4), at least as far as the distal edge (5) of the head (4).

3. Surgical instrument according to claim 1 or claim 2, characterised in that the bearing element (7) extends in an axial direction over the distal edge (5) of the head (4).

4. Surgical instrument according to any one of claims 1 to 3, characterised in that the bearing element (7) is constructed in a journal-like manner.

5. Surgical instrument according to any one of claims 1 to 4, characterised in that the protection device (8) is coupled at the distal end (11) thereof to the bearing element (7).

6. Surgical instrument according to any one of claims 1 to 5, characterised in that the protection device (8) is constructed to be closed at the distal end (11) thereof.

7. Surgical instrument according to any one of claims 1 to 6, characterised in that the protection device (8) is rotatably coupled at the proximal end thereof to the shaft (2).

8. Surgical instrument according to any one of claims 1 to 7, characterised in that the protection device (8) is rotatably coupled to the bearing element (7) and/or the shaft (2) by means of a plain bearing (17) and/or a ball bearing and/or a roller bearing.

9. Surgical instrument according to any one of claims 1 to 8, characterised in that there is constructed in the bearing element (7) at least one fluid opening (15) which is connected to a fluid channel (14), wherein the fluid channel (14) extends from the connection region (3) through the shaft (2) and the bearing element (7).

10. Surgical instrument according to any one of claims 1 to 9, characterised in that the protection device (8) is produced from plastics material or metal.

11. Surgical instrument according to any one of claims 1 to 10, characterised in that the protection device (8) is constructed in a transparent manner.

12. Surgical instrument according to any one of claims 1 to 11, characterised in that at least one opening (12) is constructed in the side wall (13) of the head (4).