Claims

1. Implant (1) to be used for the occlusion of aneurysms in the region of vessel branches, in particular bifurcation aneurysms (A), with a mesh structure (3, 4), said implant comprising – from proximal to distal – sections (a) to (d):

(a) is a section tapering down proximally in which the mesh structure is brought together to form one or several coupling elements (10),

(b) is a fixing section by means of which the implant can be supported on the wall of a vessel,

(c) is a permeable section for the region of the vessel bifurcation, and

(d) is a distal section in which the implant is expanded in comparison to section (b) and which is intended for placement into the aneurysm (A),

characterized in that a separation zone (T1) is arranged in between sections (c) and (d), the separation zone (T1) being provided with separation elements consisting of filaments (6) extending substantially in a plane crosswise to the implant (1) and the distal section (c) consisting of a plurality of loops (12).

~~wherein a separation zone (T1, T2) being arranged in the area of sections (c) or (d).~~

2. Implant according to claim 1, characterized in that the distal section (d) is widened out in a trumpet- or basket-like shape through a braiding or by means of loops (12).

3. Implant according to claim 1 or 2, characterized in that it consists of shape-memory material.

4. Implant according to any one of the above claims, characterized in that the implant at least partially is cut out of a tube.

~~5. Implant according to any one of the above claims, characterized in that the separation zone (T1, T2) is provided with separation elements consisting of filaments (6) extending substantially in a plane crosswise to the implant (1).~~

~~6. Implant according to claim 4, characterized in that the separation zone (T1, T2) is cut out of the tube.~~

~~7~~5. Implant according to any one of the above claims, characterized in that the proximal section (a) terminates in a coupling wire (10).

~~8~~6. Implant according to any one of the above claims, characterized in that the distal section (d) is designed so as to be atraumatic, soft, and elastic.

~~9. Implant according to any one of the above claims, characterized in that the distal section (d) consists of a plurality of loops (12) which are connected with section (c).~~

~~10~~7. Implant according to claim ~~9~~1, characterized in that the loops (12) are provided with eyelets (17) in the distal section (d).

~~11~~8. Implant according to claim ~~9 or 10~~1, characterized in that the loops (12) in the distal section (d) are provided at the distal end with rounded spouts (18).

~~12~~9. Implant according to any one of the above claims, characterized in that it is of laterally closed tubular design.

~~13~~10. Implant according to any one of claims 1 to ~~12~~9, characterized in that the implant is partially or continuously slotted.

~~14~~11. Implant according to any one of the above claims, characterized in that marker elements (8) are arranged in the distal section (d).

~~15~~12. Implant according to any one of the above claims which is coupled to a guidewire (9).