

ImplantAbstract

The invention relates to an implant to be used for the occlusion of aneurysms in
5 the region of vessel branches, in particular bifurcation aneurysms (A), with a
mesh structure (3, 4), said implant comprising – from proximal to distal – a fixing
section (b) by means of which the implant can be supported on the wall of a
vessel, a permeable section (c) for the region of the vessel bifurcation, and a
10 distal section (d) in which the implant is radially expanded in comparison to sec-
tion (b) and which is intended for placement into the aneurysm (A). In the area of
sections (c) or (d) a separation zone (T1, T2) is arranged that closes off at least
partially the neck of the aneurysm, the distal section (d) being provided with a
plurality of filaments and/or loops (12) connecting to section (c) and said fila-
15 ments/loops (12) forming an angle of between -45° and $+175^{\circ}$ in relation to the
longitudinal axis of the implant (1), wherein a positive angle is indicative of fila-
ments pointing radially outward and a negative angle of filaments/loops (12)
pointing radially inward. Alternatively, the distal section (d) may also be enlarged
in the form similar to a sphere, mushroom, anchor or ellipsoid.

Fig. 3b