

## IMPLANT INSERTION SYSTEM

### Abstract

The invention concerns a device for introducing an implant (1) into blood vessels or hollow organs of the human or animal body, comprising an implant (1), an insertion wire (14) and a release tube (13), wherein the implant (1) is deformable so that it adopts a shape with reduced diameter in a microcatheter (8) and at the site of the implantation it expands once the external constraint of the microcatheter (8) disappears, adapting to the diameter of the blood vessel or hollow organ, wherein a holding element (2) is arranged on the insertion wire (14) and the holding element (2) has at its periphery at least one, preferably a plurality of grooves (3) set into the holding element (2), running along the circumference of the holding element (2) and forming tracks in the form of curved lines, wherein the implant (1) has at the proximal end at least one, preferably a plurality of holding wires (5) extending in the proximal direction, which are fitted into the grooves (3), wherein the release tube (13) is pulled with a form fit over the holding element (2) and the holding wires (5) fitted into the grooves (3), so that the holding wires (5) are held in the grooves (3) by frictional locking and a releasing of the implant (1) occurs by pulling back the release tube (13) in the proximal direction. According to an alternative embodiment, the invention concerns a device for introducing an implant (1), wherein the release tube (13) protrudes into the proximal end of the implant (1), wherein an elastic contact surface is present between the inside of the implant (1) and the outside of the release tube (13), so that a frictional locking is generated between implant (1) and release tube (13), bringing about a lengthwise mobility of the implant (1) inside the microcatheter (8) by lengthwise movement of the release tube (13) distally or proximally.

Fig. 4