DISCLOSURE

However, there has been a desire for a flexible stent capable of further improving the operability of the stent by further improving the visibility of the opaque member provided in the stent.

Thus, various embodiments provide a flexible stent capable of further improving the operability of the stent by further improving the visibility of an opaque member provided in the stent.

An aspect relates to a flexible stent including: a plurality of ring-shaped pattern bodies which have a wavy line-shaped pattern and are arranged side by side in an axial direction; and a plurality of connecting elements which connect the adjacent ring-shaped pattern bodies, wherein when viewed from a radial direction perpendicular to the axial direction, a circular direction of the ring-shaped pattern body is inclined or not inclined with respect to the radial direction, wherein a plurality of opaque members which are highly opaque to radiation are provided in struts and/or are disposed in vicinities of the strut constituting the ring-shaped pattern body and/or the connecting elements, and wherein the plurality of opaque members are regularly arranged in one or two of the circular direction, the axial direction, and a circumference direction of the flexible stent, wherein the ring-shaped pattern body is formed such that a plurality of waveform elements each formed by connecting two leg portions at an apex and having a substantially V-shape are connected in the circumference direction of the flexible stent, and wherein the plurality of opaque members are provided in the struts and/or are disposed in the vicinities of the struts by selecting one or more modes from a hole insertion mode in which each of the plurality of opaque members is disposed or inserted through a hole, a winding mode in which each of the plurality of opaque members is wound on each of the struts, and an apex hooking mode in which each of the plurality of opaque members is hooked to an apex of each of the waveform elements, wherein

the plurality of connecting elements include first connecting elements located at a first side in the axial direction with respect to the ring-shaped pattern body and second connecting elements located at a second side in the axial direction with respect to the ring-shaped pattern body, wherein a length of each of the first connecting elements is shorter than a length of each of the second connecting elements, and wherein the hole is provided in each of the first connecting elements.

Further, the ring-shaped pattern body may be formed such

CLAIMS

1. A flexible stent comprising:

a plurality of ring-shaped pattern bodies which have a wavy line-shaped pattern and are arranged side by side in an axial direction; and

a plurality of connecting elements which connect the adjacent ring-shaped pattern bodies,

wherein when viewed from a radial direction perpendicular to the axial direction, a circular direction of the ring-shaped pattern body is inclined or not inclined with respect to the radial direction,

wherein a plurality of opaque members which are highly opaque to radiation are provided in struts and/or are disposed in vicinities of the struts constituting the ring-shaped pattern body and/or the connecting elements,

wherein the plurality of opaque members are regularly arranged in one or two of the circular direction, the axial direction, and a circumference direction of the flexible stent, wherein the ring-shaped pattern body is formed such that a plurality of waveform elements each formed by connecting two leg portions at an apex and having a substantially V-shape are connected in the circumference direction of the flexible stent,

wherein the plurality of opaque members are provided in the struts and/or are disposed in the vicinities of the struts by selecting one or more modes from a hole insertion mode in which each of the plurality of opaque members is disposed or inserted through a hole, a winding mode in which each of the plurality of opaque members is wound on each of the struts , and an apex hooking mode in which each of the plurality of opaque members is hooked to an apex of each of the waveform elements,.

wherein the plurality of connecting elements include first connecting elements located at a first side in the axial direction with respect to the ring-shaped pattern body and second connecting elements located at a second side in the axial direction with respect to the ring-shaped pattern body, wherein a length of each of the first connecting elements is shorter than a length of each of the second connecting elements, and

wherein the hole is provided in each of the first connecting elements.

2. The flexible stent according to claim 1,

wherein a winding direction of each of the first connecting elements is opposite to a winding direction of the each of second connecting elements.

3. The flexible stent according to claim 1 or 2,

wherein the length of each of the one connecting element is ten times or more the length of each of the first connecting element.

4. The flexible stent according to any one of claims 1 to 3,

wherein a plurality of bar-shaped members in which a plurality of struts are joined are provided at a base end portion side and/or a tip portion side of the flexible stent and the plurality of bar-shaped members are substantially aligned and bundled in the axial direction.