

Claims

1. An implantable device (200) for stimulating a heart (H) and lowering blood pressure, comprising:
 - 5 - a stimulation unit (201) configured to stimulate the His bundle (HIS) or the left-bundle branch (LBB) of the heart (H), and
 - a sensing unit (202) for detecting atrial activity of the heart (H),**characterized in that**

the stimulation unit is configured to stimulate the His bundle (HIS) **or** the left bundle

10 branch (LBB) immediately before or immediately after detection of an atrial activity.
2. The implantable device according to claim 1, wherein the atrial sensing unit is configured to detect atrial activity of the heart using a ground electrode contact located outside the heart.
- 15 3. The implantable device according to one of the preceding claims, wherein the stimulation unit is configured to stimulate the His bundle (HIS) or the left-bundle branch (LBB) less than 80 ms, preferably less than 70 ms, preferably less than 60 ms, preferably less than 50 ms, preferably less than 40 ms, preferably less than 30 ms, preferably
- 20 less than 20 ms, preferably less than 10 ms before detection of an atrial activity.
4. The implantable device according to one of the preceding claims, wherein the stimulation unit is configured to stimulate the His bundle (HIS) or the left-bundle branch (LBB) less than 80 ms, preferably less than 70 ms, preferably less than 60 ms, preferably
- 25 less than 50 ms, preferably less than 40 ms, preferably less than 30 ms, preferably less than 20 ms, preferably less than 10 ms after detection of an atrial activity.
5. The implantable device according to one of the preceding claims, wherein the implantable device (200) is configured to suspend the stimulation of the His bundle (HIS)
- 30 and/or of the left bundle branch (LBB).

6. The implantable device according to one of the preceding claims, wherein the implantable device (200) is configured to suspend the stimulation of the His bundle (HIS) and/or the left bundle branch (LBB) after a predefined number of heart cycles or after a predetermined time period for at least one heart cycle or for a predetermined time period, wherein preferably said number is a natural number between one and ten.
7. The implantable device according to one of the preceding claims, wherein the implantable device (200) is configured to control suspension of the stimulation of the His bundle (HIS) and/or the left bundle branch (LBB) depending on one or more parameters recorded by the implantable device (200) or by another device and assignable to the systemic blood pressure.
8. The implantable device according to one of the preceding claims, wherein the implantable device (200) comprises an electrode lead (210) electrically connected to the stimulation unit (201) and the sensing unit (202), wherein the electrode lead (210) comprises a first electrode contact (210a) configured to be fixed to a proximal portion of the His bundle (HIS) and to stimulate the His bundle (HIS), and a second electrode contact (210b) for sensing said atrial activity.
9. The implantable device according to one of the preceding claims, wherein the implantable device (200) comprises an electrode lead (370) comprising an electrode contact (380) configured to be positioned in the region of the ventricular septum, wherein the implantable device (200) is configured to stimulate the left bundle branch.
10. Method for lowering blood pressure by means of His bundle (HIS) or left bundle branch (LBB) stimulation, particularly using an implantable device (200) according to one of the preceding claims, wherein His bundle stimulation or left bundle branch stimulation is applied to the heart (H) immediately before or immediately after detection of an atrial activity of the heart (H).