CLAIMS

1. An apparatus useful in receiving an electrical signal from a His bundle cardiac tissue, said apparatus comprising a catheter probe at one end and a flexible elongate member at the other end, wherein said catheter probe comprises a plurality of receiving poles positioned in longitudinally relative to said catheter probe, said poles positioned equidistant from each other, wherein said catheter probe is from about 6 cm to about 10 cm in length, and from about 3 mm to about 5 mm in width or diameter, and said elongate member is capable of moving through a human blood vessel.

2. The apparatus of claim 1, further comprising a second row of receiving poles positioned longitudinally relative to a second edge of said catheter probe opposite said first edge, wherein said second row of receiving poles are equidistant from each other, distance between said poles in said second row being identical to distance between said poles in said first row.

3. The apparatus of claim 1, wherein said receiving poles are from about 1 mm to about 2 mm in diameter.

4. The apparatus of claim 1, wherein said receiving poles are positioned from about 2 mm to about 4 mm from each other.

5. The apparatus of claim 1, comprising at least 2 electric receiving poles.

6. The apparatus of claim 5, comprising from 4-8 electric receiving poles.

7. The apparatus of claim 2, wherein each of said first and second row of longitudinal receiving poles comprises from 2 to 8 electric receiving poles, each of which has a diameter of from about 1-2 mm, and each receiving pole in said row is positioned from about 2 mm to about 4 mm from the receiving pole to which it is closest.

8. The apparatus of claim 1, wherein said apparatus is constructed of polyurethane.

9. The apparatus of claim 1, wherein said receiving poles are constructed of platinum,

iridium, or mixtures thereof.

10. Apparatus of claim 1 when used in determining His electrogram alternans by the following process, inserting the apparatus through a blood vessel which leads to the heart, positioning said catheter probe on cardiac tissue, which generates an electric signal, and receiving said electric signal via said receiving poles.

11. The apparatus of claim 10, wherein said cardiac tissue is an His bundle.

12. The apparatus of claim 11, wherein said electric signal is SHE (superior His electrogram alternans) or IHE (inferior His electrogram alternans).

13. The apparatus of claim 10, wherein said blood vessel is a vein.

14. The apparatus of claim 10, wherein said blood vessel is an artery.