CLAIMS

1. An apparatus for receiving an electrical signal from an His bundle of cardiac tissue, said apparatus comprising a catheter tip portion at one end and a flexible elongate member at the other end, wherein said catheter tip portion comprises a plurality of receiving poles positioned longitudinally relative to a first edge of said catheter tip portion, said poles positioned equidistant from each other,

   wherein said catheter tip portion is from 6 cm to 10 cm in length, and from 3 mm to 5 mm in width or diameter and wherein said catheter tip portion is in the form of an oval, a rectangle, a semi-circle, or a square, and

   wherein said catheter tip portion is insertable through a peripheral blood vessel to contact the His bundle.

2. The apparatus of claim 1, further comprising a second row of receiving poles positioned longitudinally relative to a second edge of said catheter tip portion 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 1 mm to 2 mm in diameter.

4. The apparatus of claim 1, wherein said receiving poles are positioned from 2 mm to 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 1-2 mm, and each receiving pole in said row is positioned from 2 mm to 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.