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March 31, 1959

Mr. Bruce Del Mar
Del Mar Engineering Laboratories
6901 Imperial Highway
Los Angeles 45, California

Re: D-1161 - TELEMETERING SYSTEM FOR PHYSIOLOGICAL
INFORMATION - William Thornton

Dear Bruce:

The above case was authorized some time ago which was intended to cover Bill's telemetering concepts of physiological information. Bill and I discussed the various systems at length, and some work was done on the case.

Bill recently ran across an article in the IRE Transactions on Medical Electronics entitled "Short Distance Radio Telemetering of Physiological Information". This article describes systems which are just about parallel to the systems Bill and I talked about. In fact, one of Bill's concepts was the monitoring of EKG's in the operating or recovery room without connecting wires, and this concept is referred to specifically in the article.

Bill's major concern was to devise a transmitter which is sufficiently small that it may be worn by the patient without interfering with the work of the surgeon, etc. The transmitter described in the article does not reach these dimensions, and it weighs about 2 pounds.

In my opinion, Bill's novelty over the systems described in this article would reside in the provision of a new and unique transmitter which is extremely small in size and light in weight. I think that we should hold up work on this case until there actually has been work done on such a transmitter, and until a physical unit has been built.

Sincerely,

SMYTH & ROSTON

Keith D. Beecher

KDB:lh
cc: William Thornton