

# TECHNICAL ASSISTANCE REQUEST

The X-Cell technology is a proposed inexpensive solar wafer that will permit maximum sunlight to enter the “n” layer and “p-n” junction mainly, to excite electrons. The cell is made up of three layers, which are an “n” doped layer, “p” doped region and a partial non-doped “z” middle layer. In contrast, X-Cell’s “cathode” and “anode” will have considerably larger “contact” surface areas, to promote the conduction of electricity more efficiently. Moreover, the practical approach of using a non-doped middle layer in X-Cell will also save on material cost while improving the cell’s efficiency. A 143.7 cm<sup>2</sup> solar cell will be produced and tested under the same environmental condition as the Panasonic HIT model. A goal of at least 26% efficiency is anticipated to make the technology worthy of replacing conventional solar panels and breaking Panasonic’s record.

Requesting a PI to prototype and test this novel silicon based solar cell.

FIG. 1

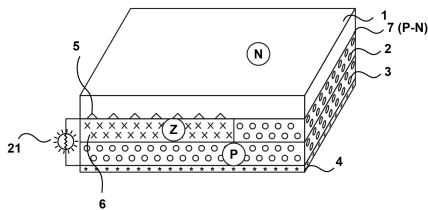


FIG. 2

