

Technical Assistance Request

Johnsons Johnson Johnson's

While we know we are on the right track with what was produced in prototype one, in regard to the technical assistance that we will need, there are several areas that could be prudent to get in contact with experts. This will be in order for prototype two's functionality to be vastly improved over the prior prototype. Changing from a stationary and fixed system to an adjustable one comes with many new challenges and factors that will need to be addressed. While we can solve many issues on our own, we have to be willing to bring new team members in to garner the best results, and we are more than willing to do so.

We will need help with the lens itself. We know that with better construction we can ultimately get the size of the lens scalable so that large units can be constructed. Larger units means that versions of prototype two could be used for more than a single family and could potentially help several families utilizing the same unit. We are also aware that safety in regard to the lens will be crucial. If the lens is left unattended it is certainly possible for it to cause damage just as any solar magnifier could do if not used properly. Building a suitable cover for the unit will be crucial in having the safest device possible.

The movable actions of prototype two will also be something necessary to consult others about to make sure that it functions in a way that can be duplicated after multiple uses. At this time we have no desire to make this device motorized for fear that it will be inoperable due to malfunction. Its movement must be simple and controllable by hand to ensure that the user gets the best results during every use. We would, however, like to incorporate a way for the device to track the sun so that it is easier to input setting parameters for ease of use. We also need to know

how to best place the device, in a given location, so that the end user has results that make it worthwhile.

We will additionally need help in regard to the overall construction of the unit as well. It needs to be light enough that a single individual can move and control the unit, but sturdy enough that it will have a long usability period. We also need to make sure that whatever we construct it out of will make the overall device scaleable and affordable to the public at large. No matter how well it works, or what it is capable of accomplishing, it will mean nothing if people are unable to afford it. It needs to be a necessary household item in the same way a first aid kit or a flashlight is necessary; it doesn't make sense not to have one.

The last thing that is of crucial importance is overall safety. We need to make sure the user will not end up breaking their back to get the device to function properly. We also need to consult to confirm that being in contact with a device such as ours isn't going to give the user adverse health effects. Does the user need to wear eye protection during use? Will there be any solar radiation effects that need to be taken into consideration? No matter how well the device works, if it ends up hurting the user we could not in good conscience produce such a product.