Abstract

The beach is great - the sand, the sea, the salt... the sand. Except when it follows you home. You know what we’re talking about - those nitty gritty bits of beach funk that you just cannot seem to remove, the ones that remain long after the memories of that glorious beach day has faded. Thus, Project Beach Funk was born. The focus of the project quickly changed from the prevention of sand, to the removal of sand. The largest problem area seemed to be the feet and legs, as they were the biggest culprits for carrying sand into the car or home. The idea of combining a brush and an air compressor to remove sand from the feet/legs came up, and testing ensued. Air blown at 40 PSI gave the desired results - removing excess sand, and drying the remaining fine bits so they could be easily swept away by the brush. The most efficient brush proved to be a rotating facial cleanser, as the bristles were firm enough to remove sand, yet still gentle on the skin. Improvements on the design of the Sand Be Gone, or SBG for short, would include an updated head with a longer air compressor hose, and a larger gearbox housing with room for the air nozzle to be placed in the middle of the brush. A new plastic head for the brush would need to be created to house the larger gearbox and air nozzle combination, and a grooved handle design would be incorporated to increase grippage of the handle. The redesign is currently being created in CATIA.