ABSTRACT

Fruit is a necessity for any lifestyle. As the old saying goes, “An apple a day keeps the doctor away...” Everyone stores their fruit differently, whether they are apples, oranges, or bananas. The only problem is, many of these methods cause bruising or do not provide enough ventilation space, causing them to spoil. Our product not only gives each fruit ventilation, but holds them softly to prevent bruising. It has a modern look that can improve any kitchen’s appearance. It is simple to install and easy to use; grabbing your fruit of choice has never been easier.

RESULTS

After modeling our design in Solidworks, we determined that our model could hold a minimum of 12 fruit with an average diameter of 3.5 inches. With the ability to install more dividers and having an attachable banana hook, our model could hold up to 36 smaller pieces of fruit. Our model, with the addition of 12 pieces of fruit, would weigh 15.39 lbs. The weight of our model would be supported by two screws as seen in the Solidworks stress test (Figure 5).

CONCLUSION

The Wheel of Fruit is an innovative design that stores fruit in a convenient and easy to use way. The user can effortlessly grab any piece of fruit they desire and no longer will have to worry about eating over ripened fruit. Further development would lead to prototype modeling made from actual materials which would include features such as slots for each fruit, a wall mount and a banana hanger.

REFERENCES

US Patents: D563730, D591561, 7340995
2011 McMaster-Carr Supply Company. www.mcmaster.com