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TECHNOLOGY BLUEPRINT REPORT

SCULLERY APPLIANCES.CO

“MULTIPURPOSE SCISSORS”

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Contents

EXECUTIVE SUMMARY	2
SCULLERY APPLIANCES COMPANY	3
1.0 PRODUCT DESCRIPTION.....	3
2.0 TECHNOLOGY DESCRIPTION	4
2.1 RAW MATERIALS	4
2.2 THE MANUFACTURING PROCESS	4
2.2.1 MAKING THE BLANKS	4
2.2.2 PROCESSING THE BLANKS	5
2.2.3 GRINDING AND POLISHING	5
2.2.4 MAKING THE HANDLES	5
2.2.5 ASSEMBLING THE SCISSORS	6
2.3 QUALITY CONTROL.....	6
3.0 MARKET RESEARCH & ANALYSIS.....	7
3.2 MARKET SIZE AND TRENDS.....	7
The 3 years of the current total market.....	7
3.3 COMPETITION	9
3.3.1 Comparison between other competitors	9
3.4 MARKET SHARE AND SALES.....	10
3.5 MARKET STRATEGY.....	11
3.5.2 Advertising and promotion	12
4.0 MANAGEMENT TEAM	13
4.1 ORGANIZATION CHART	13
4.2 Key Management Personal	12
4.3 Management Compensation and Ownership	13
4.4 Supporting Professional Advisors and Services	13
6.0 PROJECT MILESTONES.....	5
7.0 CONCLUSION.....	8
5.0 FINANCIAL PLAN	14
5.1 Start up cost	14
5.2 Working CAPITAL	15
5.3 Cost of component per prototype	16

List of Figures

Figure 1: The Dimensions of the Multipurpose Scissors

2

EXECUTIVE SUMMARY

Scullery Appliances.co is introducing a new scissor with the invention and idea of multipurpose. A multipurpose scissor is introduced to ease the work of labour in the kitchen spent by housewives and people who lives alone. This scissor comes with a detachable blade that hence fulfils the idea of multipurpose as different blade comes with different uses. A normal blade shows the use of common scissor while the serrated blade is the multipurpose scissor being introduced. This multipurpose scissor comes with the function of descaling fishes, to cut through hard shells, comes with a bottle opener and may act as knife too when detached. The advantages of the scissor is it save space, cost, time and easy to use.

Together in this report marketing aspects is included regarding the price, expected market growth, target customer as well the marketing strategy. This is to ensure that our product is eligible and valid to be in the current market despite fierce competition.

SCULLERY APPLIANCES COMPANY

Scullery Appliances.co establish as of 2019 with the motto of 'We make it, You use it' where it defines that we will produce the products for our customers' needs. The company consists of four (4) head of department that is the Chief Executive Officer (CEO), Marketing Director, Human Resource Director and Financial Director.

Our company focuses on producing and making products for home appliances especially for kitchen uses. This time we are introducing a new multipurpose scissor. The key features of this product are a scissor with detachable blade, own multipurpose of function, safe space and compact design.

1.0 PRODUCT DESCRIPTION

Scissor is used when cutting or wanting to separate into two pieces of an item. Scissor are cutting instruments consisting of a pair of metal blades connected in such a way that the blades meet and cut materials placed between them when the handles are brought together. The word shears is used to describe larger instruments of the same kind. As a general rule, scissors have blades less than 6 in (15 cm) long and usually have handles with finger holes of the same size. Shears have blades longer than 6 in (15 cm) and often have one small handle with a hole that fits the thumb and one large handle with a hole that will fit two or more fingers.

The multiple scissor is designed for multipurpose use and to make it easy for everyone to use it. The multiple scissor consists of fish scaler, kitchen knife, bottle opener, nut cracker and crab crusher. It is a detachable scissors so it can also function as a scissors. The kitchen knife and the scissor blade is made up of stainless steel that can stay sharp or it can be sharpened with a whetstone. Stainless steel blade also is chosen because the material has a higher tendency to resist rust. Since this scissor is dealing with water a lot where water is the first enemy when it comes to rust, thus it is essential to choose a material that can resist rust. Stainless steel also is a material that is easy to clean after use it.

The 8 inches long scissor consists of 3 inches of the blade and 4.3 inches of the comfortable handle. The fish scaler is built with a jagged stripping blade that lifts the scale and then remove it as it is moved over the scales joined to the skin. The kitchen knife can be used to slice meat or chopping smaller vegetables. The nut cracker is designed to be adaptable to the cracking requirements of some number of nuts, where the shell can be processed to brittleness.

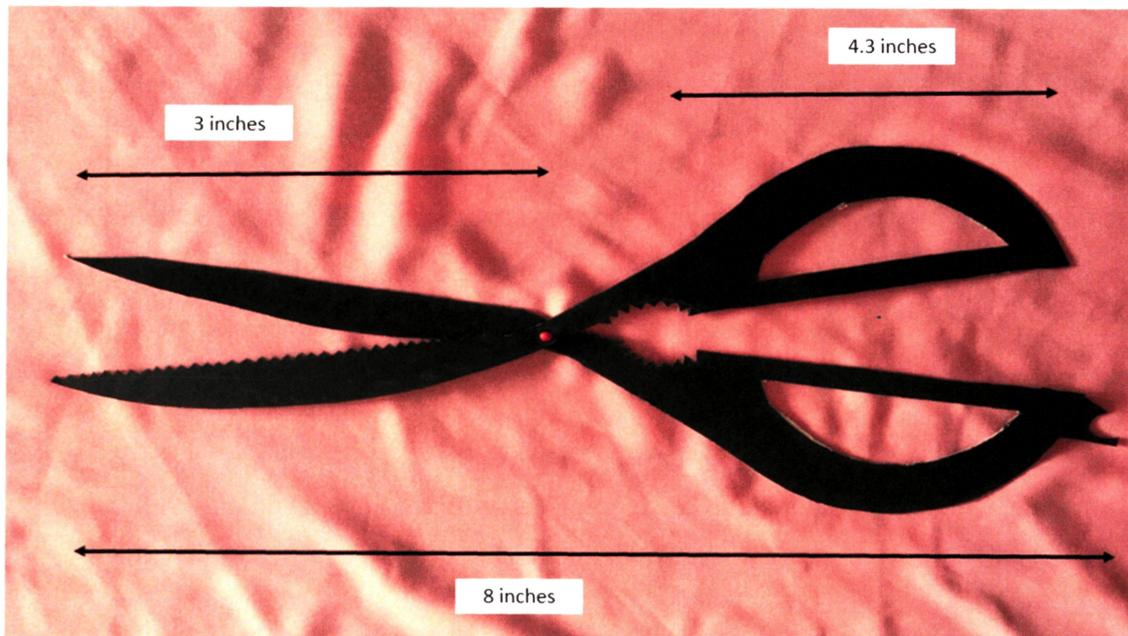


Figure 1: The Dimensions of the Multipurpose Scissors

2.0 TECHNOLOGY DESCRIPTION

2.1 RAW MATERIALS

Scissors are usually made of steel. Some scissors used for special purposes are made from other metal alloys. Scissors used to cut cordite (an explosive substance resembling twine) must not produce sparks. Scissors used to cut magnetic tape must not interfere with magnetism.

Steel scissors exist in two basic forms. Carbon steel is used to make scissors in which the blade and the handle form one continuous piece. Carbon steel is manufactured from iron and about 1% carbon. It has the advantages of being strong and staying sharp. Scissors made from carbon steel are usually plated with nickel or chromium to prevent them from rusting.

Stainless steel is used to make scissors in which a plastic handle is fitted to the metal blade. Stainless steel is manufactured from iron, about 1% carbon, and at least 10% chromium. It has the advantages of being light and rustproof. The handles of stainless steel scissors are made from a strong, light substance such as ABS (acrylonitrile-butadiene-styrene) plastic.

2.2 THE MANUFACTURING PROCESS

2.2.1 MAKING THE BLANKS

- 1 Before they are sharpened and attached, the two halves of a pair of scissors are known as blanks. A blank may consist of a blade and a handle in one piece or it may consist of only the blade. In the latter case, a metal handle will be welded to the blade or a plastic handle will be attached to it.
- 2 Inexpensive scissors may be made from blanks formed by cold stamping. In this process, a sharp die in the shape of the blank is stamped into a sheet of unheated steel. The die cuts through the steel to form the blank.