IOSR Journal of Engineering (IOSRJEN) **www.iosrjen.org**
ISSN (e): 2250-3021, ISSN (p): 2278-8719
Vol. 09, Issue 5 (May. 2019), ||S (VII) || PP 29-30

Development & Fabrication of Fast Food Products Making Machine: A Review

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Abstract:
This machine is related to food industry. It helps to reduce the labour cost as well as time.We are trying to manufacture a machine which will give maximum production of multiple shapes of fast food products such as Noodles, Sewai, Chakli, Gathiya, Namkeen etc. This machine will have high efficiency also the production rate as compare to the manual process.This machine will also help to boost the rate of production in Griha udyog and laghu udyog.

I. Introduction

Today's world is of new technology and developments. Hence rapid working machine's and equipment's are going to be manufactured.The Engineer's are constantly facing the challenges in bringing ideas and design into reality. New machines and techniques are being developed continuously to manufacture various products at cheaper rate and higher quality. India has a great heritage of traditional food products.There are many food products here which are likely to be made traditionally. But today's modern day to day life people have no time to spend in making their favourite fastfood products. So, to overcome this clause we are trying to manufacture a machine which will produce multiple shape fast food products from one assembly.

Literature Review:-

1) Design & Development of Fast Food Machine by Amit B Solanki (2014)

Goal of this paper is propose the detail design and development of automated fast food machine for large food industry applications. Automated fast food machine is a device that squeezing the duff mixture of fast food with following categorizedefficiency such as time, human effort, safety, cleaning and quality during fast food making. In this design, it is mainly notified about cost of the machine as well as timeefficiency. This designed machine can squeeze duff mixture using screw extruder with electric power, and extruded out using rotating conveyer from machine die to away as near to operator. Therefore, production rate of the fast food making machine is highcompared with other manual and commercially available machines The detail design and development of auto-mated fast food machine for large fo industry applications. Automated fast food machine is a device that squeezing the duffmixture of fast food with following categorized efficiency such as time, human effort, safety, cleaning and quality during fast food making. In this design, it is mainly notified aboutcost of the machine as well as time efficiency.Therefore, production rate of the fast food making machine is high com-pared with other manual and commercially available machines.

2) Fabrication of portable noodle making machine by Bharathraj M, Murali Kumar L (2017)

The popularity of noodle can be attributed to its sensory appeal, versatility, low cost, ease of preparation, nutritional content and excellent storage stability as well as increased consumer interest in ethnic foods in the western world. Noodles are a value-added item made from flour. As regular breakfast item. The raw material required for making noodles is available in the local market. It is widely used by school children for breakfast because it takes less time for preparation.

The demand for noodles would be mainly from urban areas. The launch of Maggi a popular product, adistinct market segment which has emerged is school childrenand college students.Choosing a right machine is

extremely important in any typeof manufacturing business. A wrong selection of machine may damage the quality and profitability of the product.

A product development process is the set of activities beginning with theperception of a market opportunity and ending in the production, sale and delivery of a product. Product development is an interdisciplinary activity requiring contributions from nearly all the functions of a firm however Marketing, Design and manufacturing are almost always central to a product development. Design & developed of Semi-automatic and fully-Automatic noodles making machines that is best suited for mass productionProposed fabrication of portable noodle making machine with compact design,portable and operated by the single person.They had studied variuos facts and apply method of extrusion by thread conveyor to achieve the desired shape of noodles.

3 Prabhakar P K*, Srivastav P P

" CHARACTERIZATION OF SORU-CHAKLI – A TRADITIONAL FOOD OF WEST BENGAL"

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Their study has the objectives of documenting the traditional knowledge pertaining to preparing soru-chakli. Soru-chakli is one of such traditional food of West Bengal, consumed during rainy season and is made from the batter of raw rice flour and palmyra palm (Borassua flabellifer) pulp. It has an attractive yellow colour and pleasant flavor. Traditional knowledge offers enormous potential for development of social-economic conditions of the particular area and state. Therefore, every effort must be made to preserve this traditional knowledge so that they can carry on with their aesthetic beauty & knowledge.

4 Anish Talwar, Yogesh Kumar:-

they focuses on the problem of learning and decision making is at the core level of argument in biological as well as artificial aspects. So scientist introduced Machine Learning as widely used concept in Artificial Intelligence. It is the concept which teaches machines to detect different patterns and to adapt to new circumstances. Machine Learning can be both experience and explanation based learning. In the field of robotics machine learning plays a vital role, it helps in taking an optimized decision for the machine which eventually increases the efficiency of the machine and more organized way of pre forming a particular task. Now-a-days the concept of machine learning is used in many applications and is a core concept for intelligent systems which leads to the introduction innovative technology and more advance concepts of artificial thinking.

FUTURE SCOPE:-

- In future by implementation of advance robotics the machine can be self-operated or automated.
- In future this machine can be used in large scale industry by using several units of the same machine.

II. Conclusion

After completing the work, it is concluded that work is simple in construction and compact in size. Power consumption is low as compare to the bigger machines used in small and large scale industries .This machine can be fabricated with less production time with ease by mass or batch production. This work can be implemented in small scale industries

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