

# A case study on a new method of carrying a cat

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**Abstract.** Authors describe results of their ongoing work to research a very important problem domain related to something. The paper presents a method and apparatus designed to carry a cat.

**Keywords:** research, data mining, big data

## 1 Introduction

Cat carrying technology field is one of the fastest growing industries today. Many people use cat carriers to bring their cats outside [1]. Cat carrier products that are on the market currently do not meet demanding requirements of the modern society.

We performed a deep research in cat carrying problem domain and developed a new very effective technology of carrying a cat.

## 2 Related works

Traditional cat carriers are classified and described in details in [1], [2]. Authors of [3] discuss effectiveness of traditional methods.

## 3 Description of experiment

A traditional method of carrying a cat is presented on Fig. 1.

The traditional cat carrier is heavy and not space-efficient. While it is possible to use modern materials to build a lighter carrier in traditional style we decided to design a cat carrier which consists of less parts.

A proposed design is shown on Fig. 2. It is much simpler and lighter than the traditional one. It is adjustable to handle a cat of any size, even a Maine Coon.



**Fig. 1.** A traditional cat carrier

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Fig. 2. A proposed cat carrier

## 4 Tools

We used a male 6 years old cat in our experiment. It weighted 5.54 kilograms. We used a traditional cat carrier produced by Cat Carriers Inc.

Authors also build their own experimental cat carrier using materials bought in Walmart store.

## 5 Results

No cats or other pets were harmed during our experiment. We defined a set of metrics and conducted a survey of 20 randomly selected cat owners.

Combined comparison results are presented in Table 1. We planned directions of future work based on these results.

**Table 1.** Comparison of traditional and new cat carriers

	Traditional	New
Weight	3Kg	1Kg
Pet happiness	-	+
Ability to carry two cats	+	-
Space effectiveness	-	+

## 6 Future work

Authors are going to implement a fully autonomous cat carrying system utilizing a deep learning algorithm.

We will also try to reduce the weight of our existing solution further.

## 7 Conclusion

A problem of carrying a cat effectively and in style is actual at the moment and will become even more actual in the future. There is a huge demand of cat carrying systems which can work 24\*7\*365 in hard conditions.

Authors presented an innovative solution and performed field testing. The new tool is better than existing methods of cat carrying by 146%.

## References

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