

# Appari's Magic Hockey Stick

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**Abstract:-**Appari's magic hockey stick is the conventional hockey in which the center of percussion is shifted at the point where the ball hits. The center of percussion of the conventional hockey stick is shifted at the downward level by attaching the heavy weight just below the point where generally ball hits. By increasing the heavy weight on backside of the bottom bent portion shifts the center of percussion on at the point where generally ball hits enables the player to hit the ball very well and for the same effort the ball can travel more distance with greater velocity.

**KEY WORDS:-** Hockey, Hockey stick, center of percussion, mercury, Appari.

## I. INTRODUCTION

The world's one of the famous game is hockey. Appari's magic stick is a conventional hockey stick in which the weight of hockey stick is increased by attaching the heavy weight just below the point where the ball hits so that the center of percussion will be shifted at lower level where the generally ball hits.

## II. DESIGN

Appari's magic hockey stick consists of the weight of hockey stick is increased by attaching heavy weight so that the center of percussion of conventional hockey stick will be shifted at point where the ball generally hits. Due to this the ball can travel more distance with greater velocity for same effort/hit.

1. The heavy weight can be attached on back side of the hockey stick in bottom bent portion, just below the center of bottom bent portion.
2. The piece of small steel section in the form of bent shape as that of bottom bent portion of hockey stick can be used to increase the weight of hockey stick, so that the center of conventional hockey stick will be shifted to the level where the ball hits.
3. Such weight should be attached on back side of the bent portion with or without removing the backside wood material with the help of clips or any other arrangement.
4. The thickness of steel may be vary as per the requirement.

OR

1. Some portion of wood on backside of bent portion of the hockey stick can be removed and completely filled/fitted with the unbreakable glass tube which contains the heavy weight like mercury, lead etc.
2. The other materials like plastic may also be used for hockey stick along with the mercury filled unbreakable glass tube attached in the bottom portion of bent can also be manufactured very easily

### III. SALIENT FEATURES AND CONCLUSIONS

1. A ball can travel more distance with greater velocity for the same effort/hit.
2. Stadium sizes will increase in future.
3. Rural development will takes place.
4. Real enjoyment of hockey players.
5. The use plastics instead of wood save the nature.
6. National economy will be improved.

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