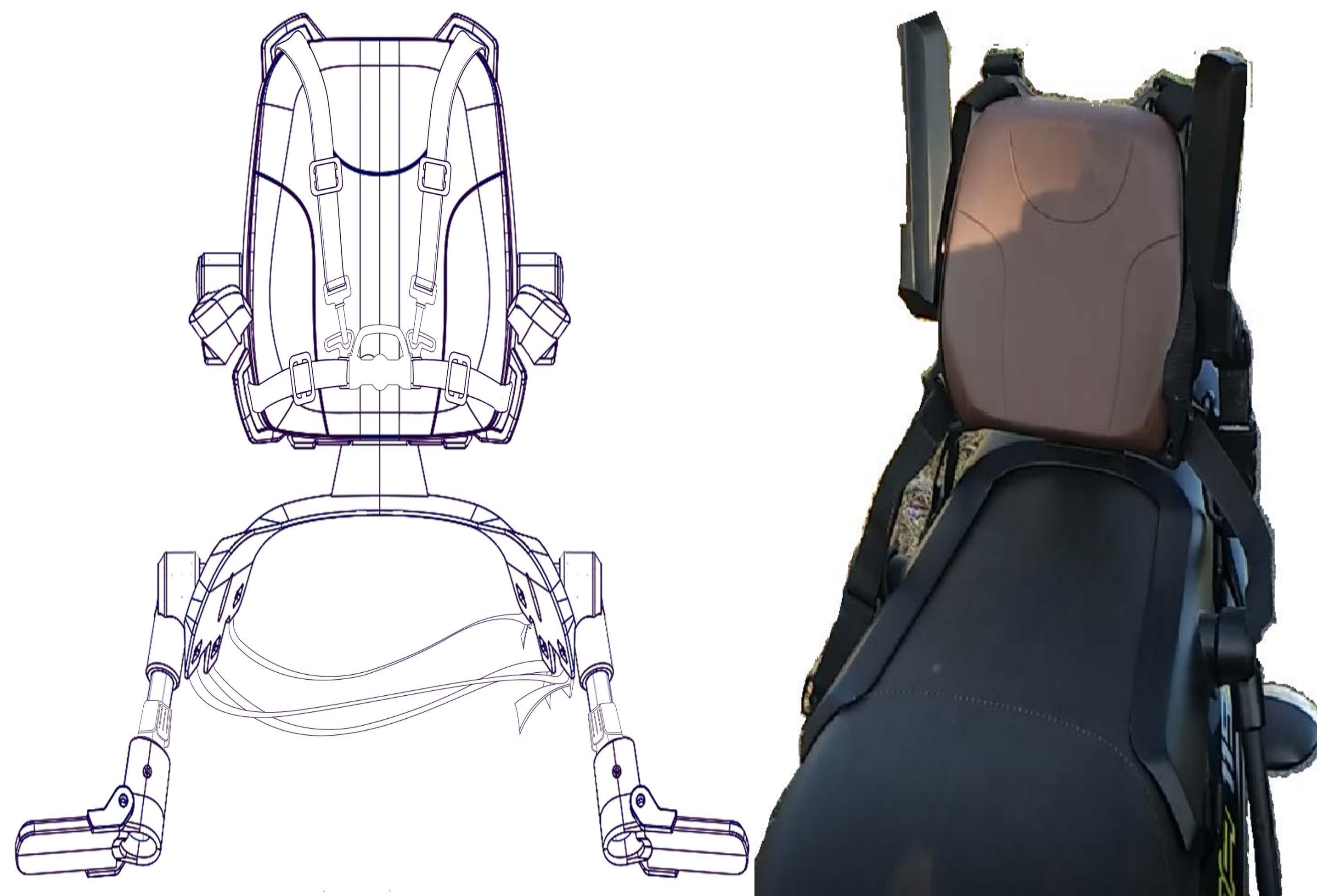


# MOTORCYCLE SAFETY BACKREST SEAT FOR CHILD PILLION RIDER

PATENT NO. PI 2018703143



Prototype :  
Motorcycle Safety Backrest Seat For Child Pillion Rider

## INTRODUCTION OF TECHNOLOGY

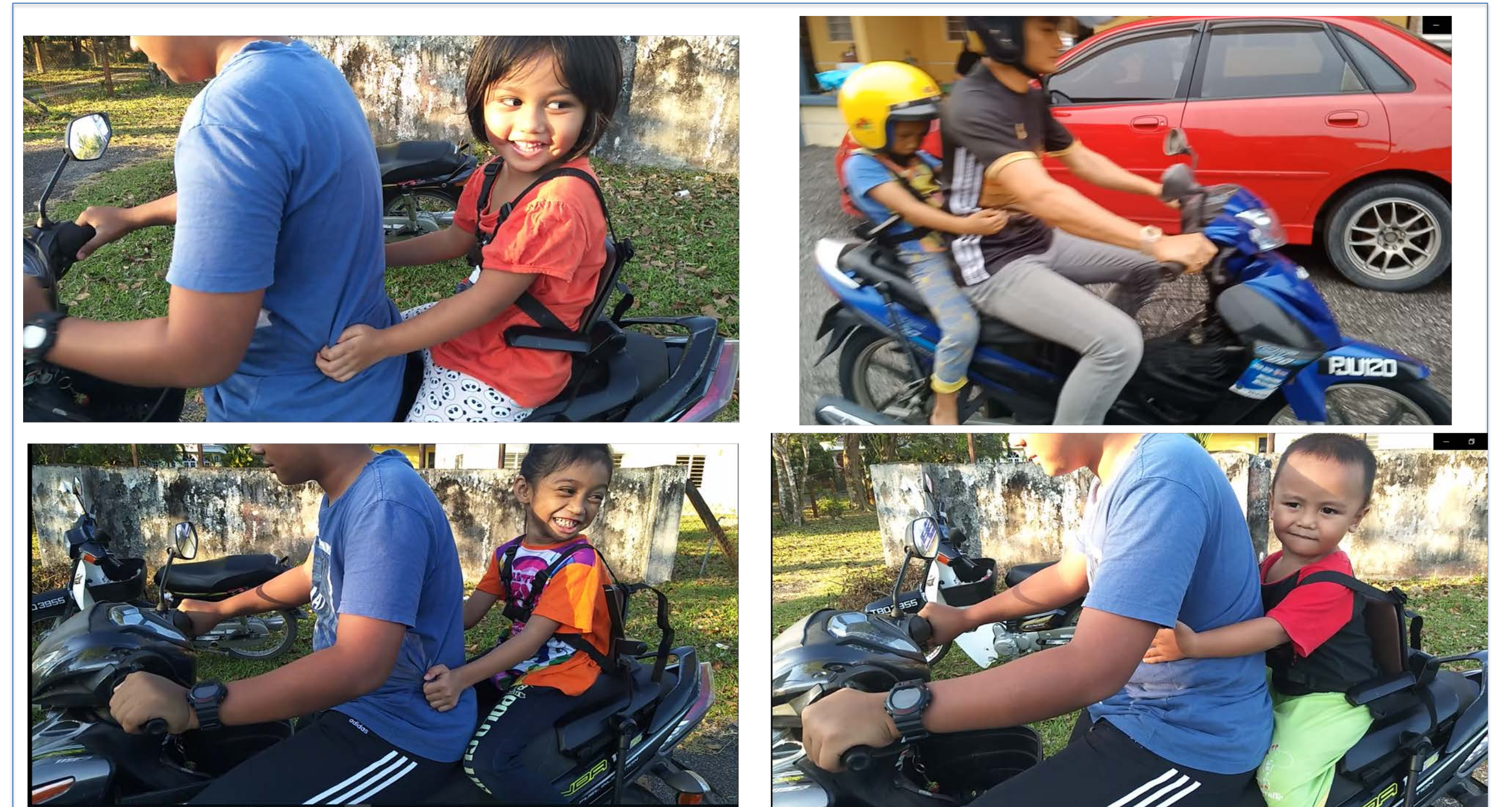
Motorcycles are a common mode of transport in Malaysia where families with children can be commonly seen riding together. However a child riding pillion on underbone (kapcai) motorcycles are not safely protected from falling down from the motorcycle apart from holding onto the adult in front. The current feature in an underbone motorcycle seat does not provide or currently lack the necessary protection for the child pillion riders.

## INVENTION

- The present invention relates to a child safety seat assembly for two-wheeler vehicles, in particular Underbone (Kapcai) motorcycles.
- The team have prepared 2 type of designs for the safety seat. The first design is a portable or a latch-on design which can be latched and fastened securely to an existing underbone motorcycle. The second design is a permanent safety seat type design where the existing underbone motorcycle seat is removed and replaced with our safety seat.

## ADVANTAGES

- Backrest** will provide the stability during the riding process (it can withstand the child pillion riders body force).
- Adjustable **arms rest** will provides stability and additional safety to ensure that the child does not fall out of the motorcycle seat
- Adjustable **foot rest** is reachable for the child's height and size.
- The **seatbelt** in the backrest will provide additional stability during the riding process.



Field Testing Using Prototype

## MARKET POTENTIAL

- Safety Backrest Seat is suitable for local market:
  - Malaysian Underbone (Kapcai ) (under 150cc) type motorcycles.
- Safety Backrest Seat is suitable for international market:
  - ASEAN Countries which have underbone motorcycles

### Consumer/End User

- Malaysian Underbone (Kapcai ) (under 150cc) type motorcyclist.

### Industry

- Automotive (motorcycle) manufacturer,
- Vendors (accessories manufacturer)



Project Leader  
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