biKit

Adapted bike accesories for children with CP

Product report

Ma4 ID 2 Emma Díaz González Industrial Design - Master's thesis AD:MT May 2014



ABSTRACT

This report is part of my Master's Thesis in Industrial Design, in Aalborg University. Its purpose is presenting the final concept achieved at the end of the design process.

It deals with designing a bike solution for children with mild to moderate levels of Cerebral Palsy. During research it was found out that the best choice was not designing the whole bike, but a series of accesories to be fit onto regular bikes.

Through the development phase, several tools like sketching, model making and user testing were used to reach a final concept for a bike saddle and handlebar. Both were ergonomically designed to meet the needs of children with CP.

This concept brings value by offering a more affordable and accesible solution to having an adapted bike.

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Emma Díaz González

WHY HAVE ADAPTED ACCESORIES?



Kids with Cerebral Palsy have some special needs. CP is a disorder that affects the motor function of the body. That means that the body behaves a bit differently from the other children's, so sometimes is better for them to use things that adapt to how their body moves.

They can still do common daily activities, but they might need some special equipment to do them.

What about playing? They are still kids, and they need to play. Bicycles are one of their favourite toys, so they deserve the possibility of having one.

THE biKit ACCESORIES

BIKIT is a line of accesories adapted to children with CP, which can be bought separately and fit onto regular bikes. It is an affordable and customizable way of getting access to a bike.

These products are aimed to children with mild or moderate cases of CP, but it should actually be the parents or the child's physician who evaluate whether they are appropriate or not for him or her.

BIKIT accessories have been developed with the particular needs of these children in mind. They are ergonomic and comfortable, with special features to ensure a safe ride.

They all have standard connexions, so they fit to most bikes. That is why they only require the same tools as any other bike part to be installed.

BIKIT tries to facilitate that children with CP can also enjoy the feeling of riding and playing with a bike like any other kid, allowing them to have more fun and mobility freedom.



HOW DOES IT WORK?













Enjoy!

















Buy a new one, a second hand one, rent it, or get it from your neighbour

Go to our online shop where you will find our online catalog of the products available Choose the accesories you need If you are in doubt we recommend you consult it with your kid's physician

We'll mail the products to your home Available all over Europe

Mount the new parts on the bike

They don't need any special tools



WHAT ARE YOUR OPTIONS?

We have a variety of sizes and colours you can choose from, so you can match it with your bike

SADDLE

You can get it in 2 different sizes: 5-7 years

8-11 years

4 different colours available

See it in detail in pages 10-15



HANDLEBAR

One size fits ages 5-11 years

4 different colours available

See it in detail in pages 16-21



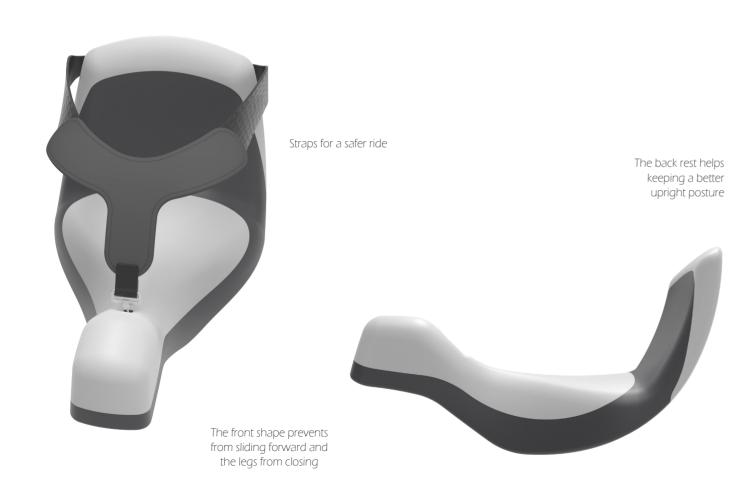
670 DKK







FEATURES





Wide and padded seat for a more comfortable ride



Standard rails that fit most bikes

Easy and quick way to fasten the straps

Introduce it and slide it to the end of the slot until you hear a click

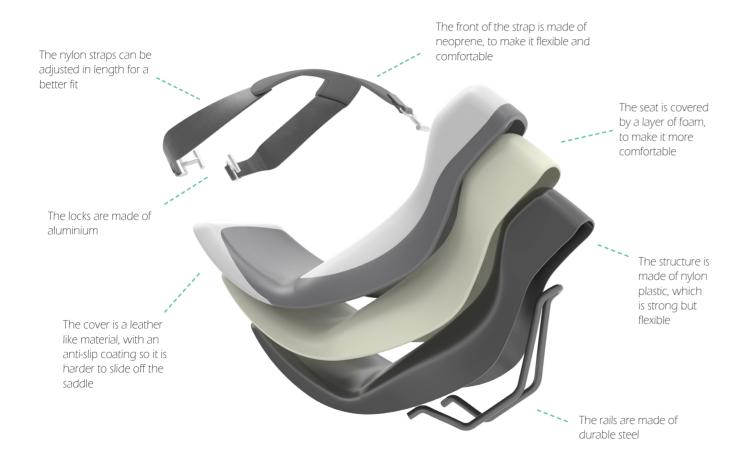




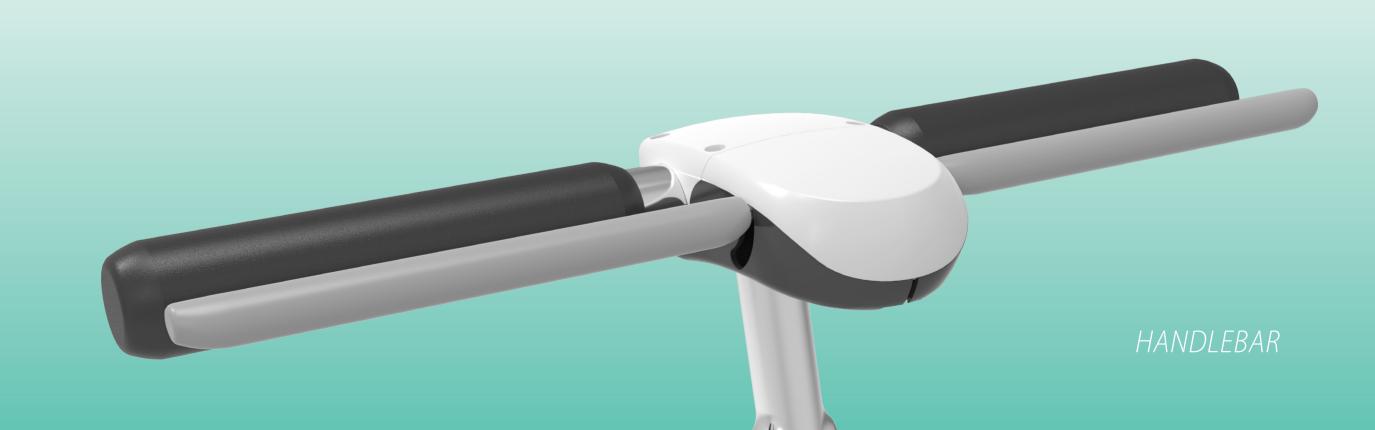
Pull up until you hear a click



MATERIALS

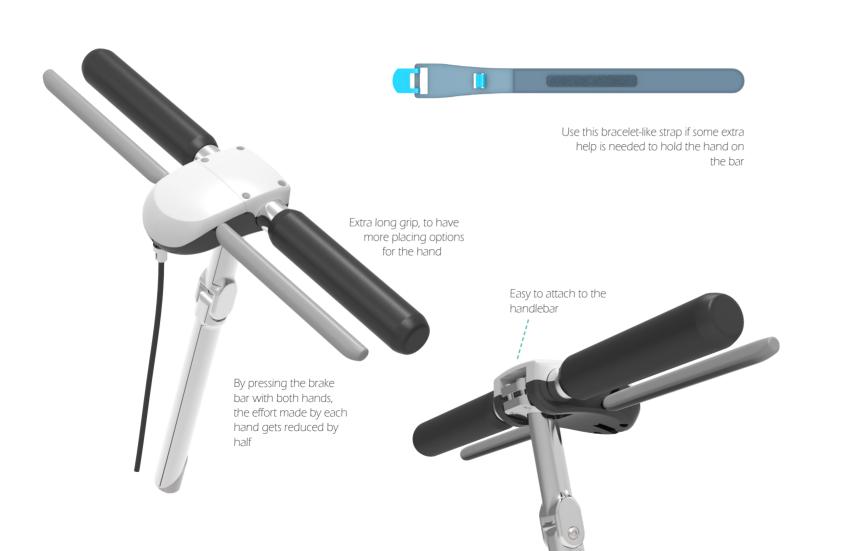






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FEATURES









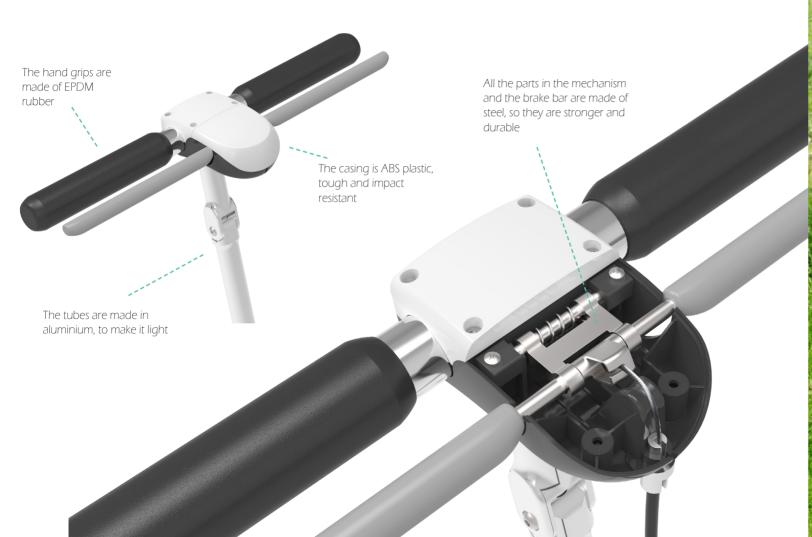
Push down the bar to brake





Extra height, to ride in a more comfortable upright position

MATERIALS







biKit

Adapted bike accesories for children with CP