


THE POSTMAN'S HIGH WHEEL BIKE

<u>Bicycle's specifications</u>			
Length: 5 ft	Width: 1,5 ft	Height: 4 ft	Weight: 55 lb
The materials used: - wood for the bike's structure - cast iron for the spokes - solid rubber for the wheels and the handlebar			
<u>Catapult's specifications</u>			
Weight: 13 lb	Capacity of letters: around 100	Throw distance: 33 ft	

This bike was created to make the postman's life easier by reducing the time he spends delivering the mail. Indeed, there is a catapult in the back of the postman which throws the letters when he passes along the houses. The mechanic of the bicycle is very simple. It works like a regular bike but the mechanic of the catapult is much more complicated. Here are the explanations:

When the postman wants to deliver a letter, he just has to pull the lever behind him. Therefore, it engages the mechanic of the catapult itself, the catapult picks up a letter in the wooden case and throws it into the garden.

In details, when the lever is pulled, it stretches the rope attached to it. Thanks to the succession of cogs, the power that you put in the lever is multiplied. When the power reaches the swing spit, the latter uncoils and it enables a better balance for the next mechanic. Therefore, the rope pulls on the pulley which enables to twist the general mechanic perpendicularly to the postman.

The only points to improve to this invention are: first the bike is a little bit heavier on the back therefore creating a loss of balance which can be annoying for the postmen who aren't used to it. And the second is that, the postman has to put back the letters in the catapult himself.

