

Auto inflatable mattress-cum-stretcher

(Details of innovation from our partner institution)

Product Description:

The auto inflatable mattress-cum-stretcher comprises of light weight synthetic air tight mattress which can be folded breath-wise into several folds to make it as small as possible. It is having a valve mechanism nozzle inlet for inflating with air when connected to the battery-operated pump or mechanical air foot pump. It also has an outlet for deflating and then folding it back when not in use. The outer surface or the surface which comes in contact with ground has three pairs of foldable handles made of strong fabric material attached on the body with Velcro. Each pair is attached with straps of strong fabric for reinforcement while shifting patients. The straps are attached to the outer surface of the device with the help of strong chemical adhesive

Intended Application:

- As a mattress and stretcher in health relief camp for humans affected by natural or man-made disaster or medical camps of any nature.

Novelty of the product:

- Foldable mattress cum stretcher
- Light weight, portable and easy to carry and store.
- In case of power failure, air in the mattresses can be filled with mechanical air foot pump making it suitable in rural environment.

Technology Readiness Level:

Prototype of the innovation is completed. Validations pending

IP Status:

Indian patent application filed (IN201941002766)

TIPS@ SCTIMST TIMed is seeking industrial partners for technology transfer and commercialization. Those interested may get in touch for further details.

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