

Ambu bag squeezer

Abus bag

Connecting Arm

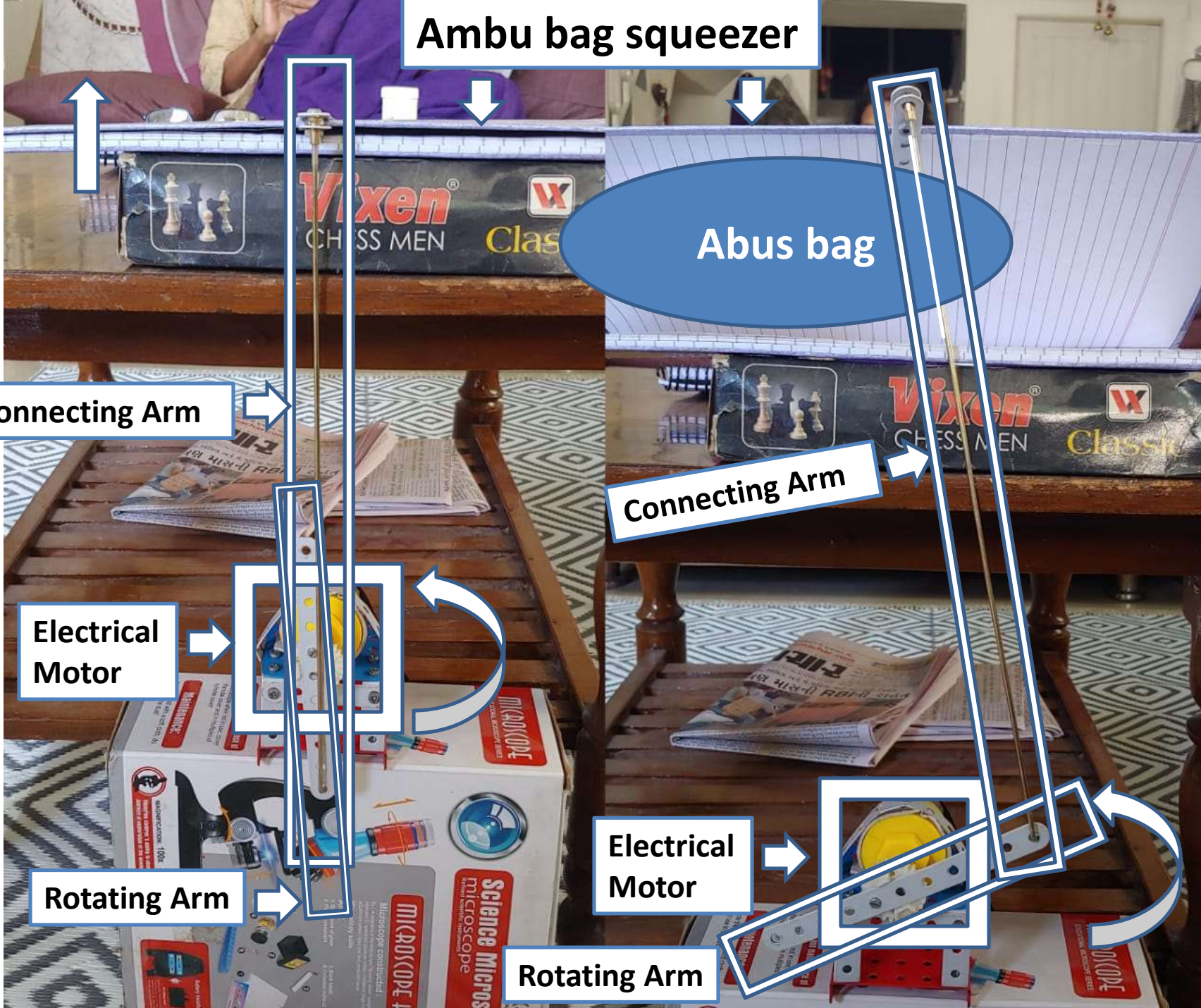
Connecting Arm

Electrical Motor

Electrical Motor

Rotating Arm

Rotating Arm



# Semi automatic low cost, mass & Rapidly producible Ambu bag based mechanical ventilator for emergency

## **Abstract**

- As it is nearly IMPOSSIBLE for a health worker to manually operate an AMBU BAG for a covid-19 ill patient
- this idea of a MECHANICAL VENTILATOR arise

## **Advantages**

- 1.low cost (nearly for a highly contagious lethal disease)
- 2. Rapid Production
- 3.Portable / Easy operable
- 4. Considerable effort reduction & safety of health worker
- 5. Absolutely helpful while transporting of patients
- 6. May be a good alternative in case of shortage of invasive ventilator
- 7. already plenty of past work had been carried out like open source in reputed universities (like MIT, USA)

## **Conclusion**

- As I am a researcher of physics this idea may require further medical assistance and applied engineering. I tried to illustrate concept by this simple demonstration with very limited source and time due to block down in my area but there is plenty of room for improvement with proper resources and potential people
- This whole setup can be assembled very rapidly with few parts and cost is not more than 20 dollar(out side India) or 500 rupee (in India)
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- written & Drafted Dr. Parash