

Covid-19 Elbow Band Prototype based on concept of 90 Degree movement locking of elbow for prevention of corona virus infection



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Corona virus aka Covid-19 pandemic has engrossed entire world including India and almost all Governments are crippling with massive number of infected patients. As of date this virus spreads by sneezing, coughing by infected person by way droplets on face and touching of surface with virus load, If person touches his eyes, nose and mouth without sanitizing his hands, may get infection .It is common human nature to touch face by hands unknowingly number of times As of now there is no evidence of aerosol transmission of this virus.

There is no medicine or vaccine available for treatment and prevention of Covid-19, hence prevention is the cure. We have to learn to live with corona virus as lockdown cannot be imposed for indefinite duration by any Government in the World. The concept/idea we are suggesting is to create a very simple but effective device/equipment/arrangement prototype aka Covid-19 Elbow Band to prevent person from getting infected by touching surface with virus load. When a person touches infected surface by hand and then touches his mouth/eyes/nose virus enter into body. This virus does not enter through healthy skin without wounds/cuts.

The idea we are putting is simple but never implemented before by any Country/Scientist/Doctor/Organization/ Government/or any individual in world as per our information and knowledge.

What we suggest is concept of up to 90 degree elbow movement locking . Once we lock our elbow up to 90 degree, we cannot touch our mouth, eyes, nose and entire face. We can make this arrangement by simple elbow sleeve and copper 90 degree stop strap hinges. Except some tasks, we may perform almost all tasks with our elbow locked hands.

We may wear this Covid-19 Elbow Band Prototype for longer duration even day long. Only during some activities related to eating/brushing/combining hair we need to remove this Covid-19 Elbow Band Prototype. We have to sanitize our hands before and after wearing or removing this Covid-19 Elbow Band Prototype. This Covid-19 Elbow Band Prototype is very low cost solution and can be reused for months. Since it is not electronics/chip/battery based, cost is very low with no maintenance. If person is

wearing mask he needs to wear his mask first before putting on this Covid-19 Elbow Band Prototype. This Covid-19 Elbow Band Prototype is washable and can be easily sanitized.

This Covid-19 Elbow Band Prototype will stop substantial secondary infection along with mask and other infection prevention measures, especially in following situation;

1. Quarantine and Isolation
2. Venturing out during lockdown
3. Working in factory and offices
- 4 In schools colleges and Universities.
5. Any public place.

It may also save huge sanitization cost of public/private places and multiple time hand washing.

We request Government to review Covid-19 Elbow Band Prototype and concept and if found suitable and useful entrust manufactures to mass produce low cost Covid-19 Elbow Band.

Improved prototype may be designed with some variation in movement locking elbow up to 90 degree, locking unlocking arrangement, along with protection mechanism to unlock elbow on high pressure to overcome any risky situation during elbow movement locking.

Disclaimer and Warning: This concept is not tested medically for side effects of 90 degree elbow movement locking and task performed during 90 degree locked elbow. We hereby also warn common citizen not to follow this concept based prototype until approved by Government. Covid-19 Elbow Band is mere prototype being submitted to various Government agencies for review. We will not be responsible for any damage or loss due to application of elbow movement locking, although as we know during fracture doctors put plaster on hand to fully freeze the elbow movements, our Covid-19 elbow band is not freezing elbow movement it just restricting elbow folding up to 90 degree. We do not manufacture/sell/market Covid-19 Elbow Band Prototype.

You may view attached video for better understanding of concept and prototype.

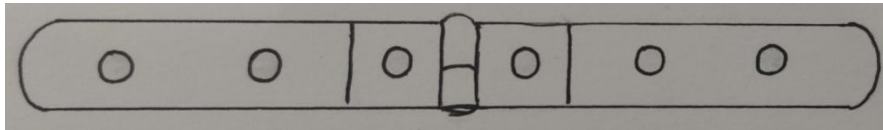
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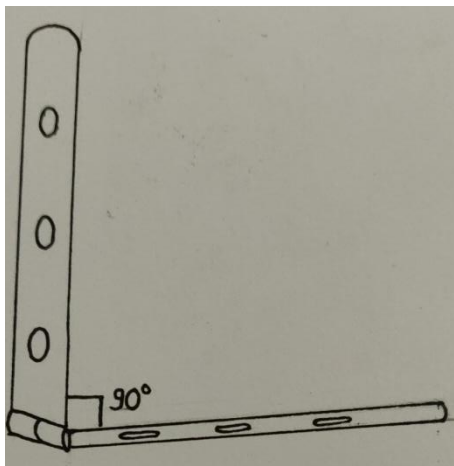
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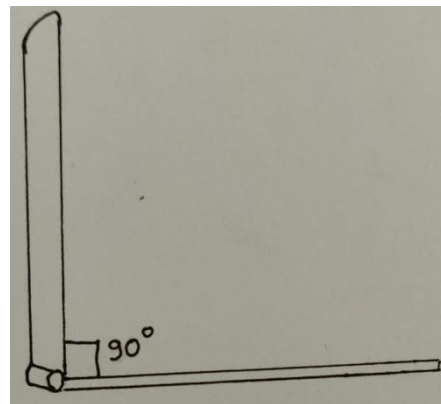
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(1)



(2)



(3)

(1) Hinge with welded Iron Strip of 4" length Both Side (2) & (3) 90 Degree position of Covid-19 Elbow Locking Band (Device) as shown in figure 1

Original Photographs of Covid-19 Elbow Locking Band Prototype



(A1) Hinge with welded Iron Strip of 4" length



(A2) 90 Degree position of Covid-19 Elbow Locking Band without sleeve



(A3) 90 Degree position of Covid-19 Elbow Locking Band sleeve



(A4)



(A5)

(A4 to A5) - Covid-19 Elbow Locking Band in Cloth Sleeve with wearing arrangement