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Spirometry Device that Attaches to a Smart Device

**Application**

The present invention is a mechanical spirometer that attaches to a smart device such as a smartphone

**Key Benefits**

- Mechanical
- Utilizes electronics provided through smartphone
- Useful for telehealth
- Extremely economical

**Market Summary**

Spirometry devices are commonly used in traditional healthcare settings by physicians and nurses. In a telehealth setting, it is not presently feasible for a healthcare professional to easily observe respiratory function. The present invention provides a simple, mechanical attachment that allows anyone to attach a spirometer to a smart device and utilize the smart device's recording and transmitting abilities.

**Technical Summary**

This invention is a mechanical attachment device that places a spirometer in communication with the microphone of a smart device. The smart device can receive the sounds transmitted through the spirometer. These sounds can be amplified through the smart device's speaker, recorded or transmitted to a third party, such as a healthcare professional. In this manner, a healthcare professional can monitor a patient's respiratory function remotely. The device can be manufactured in a surprisingly economical manner. Therefore, it can be distributed to patients who may live far from medical services and used by them to record or transmit spirometry sounds as needed.

**Developmental Stage**

Prototype built and tested

**Patent Information**

| App Type    | Country | Serial No. | Patent No. | File Date  | Issue Date |
|-------------|---------|------------|------------|------------|------------|
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