



## TECHNOLOGY LICENSING OFFICE

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### **BV 2020-15 - Auscultation Device that Attaches to a Smart Device**

#### **APPLICATION:**

The present invention is a mechanical device that attaches an auscultation device to a smart device such as a smartphone.

#### **KEY BENEFITS:**

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

#### **MARKET SUMMARY:**

Auscultation 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 auscultatory sounds. The present invention provides a simple, mechanical attachment that allows anyone to attach an auscultation device 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 bell or diaphragm in communication with the microphone of a smart device. The smart device can receive auscultatory sounds transmitted through the bell or diaphragm. These sounds can be amplified through the smart device's speaker, recorded or transmitted to a third party. The attachment device, bell and diaphragm 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 auscultatory sounds in a telehealth setting.

#### **DEVELOPMENTAL STAGE:**

Prototype built and tested.

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**PATENT  
INFORMATION  
AND CONTACT:**

App Type: Provisional

Country: US

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