

**'178 Claim Mapping Table**

1[pre] A finger-worn wearable ring device, comprising:	
1[a] an external housing component defining an outer circumferential surface of the finger-worn wearable ring device;	
1[b(i)] an internal housing component defining an inner circumferential surface of the finger-worn wearable ring device, the internal housing component coupled with the external housing component,	
1[b(ii)] wherein at least a portion of the inner circumferential surface of the internal housing component is configured to contact a tissue of a user when the finger-worn wearable ring device is being worn by the user;	
1[c] a battery positioned within a cavity formed between the internal housing component and the external housing component, wherein the battery comprises a shape and size configured to fit within the cavity between the outer circumferential surface of the external housing component and the inner circumferential surface of the internal housing component, and wherein the battery extends through at least a first portion of the cavity of the finger-worn wearable ring device;	

<p>1[d] a printed circuit board disposed between the internal housing component and the external housing component, wherein the printed circuit board extends through at least a second portion of the cavity of the finger-worn wearable ring device different from the first portion; and</p>	
<p>1[e] one or more sensors electrically coupled with the printed circuit board and the battery and configured to acquire data from the user through the internal housing component.</p>	
<p>2. The finger-worn wearable ring device of claim 1, wherein the first portion of the cavity of the finger-worn wearable ring device is non-overlapping with the second portion of the cavity of the finger-worn wearable ring device.</p>	
<p>3. The finger-worn wearable ring device of claim 1, wherein the first portion of the cavity of the finger-worn wearable ring device at least partially overlaps with the second portion of the cavity of the finger-worn wearable ring device.</p>	
<p>4. The finger-worn wearable ring device of claim 1, further comprising: one or more magnetic components configured to magnetically interact with one or more additional magnetic components of a charger device to orient the finger-worn wearable ring device within a charging position on or within the charger device to facilitate charging of the finger-worn wearable ring device.</p>	

<p>5. The finger-worn wearable ring device of claim 4, further comprising: a charging component configured to wirelessly transfer energy from an additional charging component of the charger device to the battery when the finger-worn wearable ring device is oriented in the charging position.</p>	
<p>6. The finger-worn wearable ring device of claim 1, further comprising: one or more processors communicatively coupled to the battery and the one or more sensors, wherein the one or more processors are configured to: selectively adjust one or more operational parameters of the one or more sensors based at least in part on the data acquired by the one or more sensors.</p>	
<p>7. The finger-worn wearable ring device of claim 6, wherein the data acquired by the one or more sensors comprises heart rate data associated with a heart rate of the user, wherein the one or more processors are further configured to: selectively adjust a measurement periodicity used by the one or more sensors to acquire the heart rate data based at least in part on the heart rate of the user.</p>	

<p>8. The finger-worn wearable ring device of claim 6, wherein the data acquired by the one or more sensors comprises activity data associated with one or more activities engaged in by the user, wherein the one or more processors are further configured to: selectively adjust a measurement periodicity used by the one or more sensors to acquire the activity data based at least in part on the one or more activities engaged in by the user.</p>	
<p>9. The finger-worn wearable ring device of claim 6, wherein the data acquired by the one or more sensors is associated with one or more sleep states of the user, wherein the one or more processors are further configured to: selectively adjust a measurement periodicity used by the one or more sensors to acquire the data based at least in part on the one or more sleep states of the user.</p>	
<p>10. The finger-worn wearable ring device of claim 1, further comprising: one or more processors communicatively coupled to the battery and the one or more sensors, wherein the one or more processors are configured to: selectively adjust one or more operational parameters of the one or more sensors based at least in part on a power level of the battery, a power usage of the one or more sensors, or both</p>	<p>11. The finger-worn wearable ring device of claim 1, further comprising: one or more processors communicatively coupled to the battery and the one or more sensors, wherein the one or more processors are configured to: selectively adjust one or more operational parameters of the one or more sensors based at least in part on a power level of the battery, a power usage of the one or more sensors, or both</p>

<p>12. The finger-worn wearable ring device of claim 1, wherein the battery comprises a curved battery, wherein an arc of the curved battery approximates a corresponding arc of the external housing component.</p>	
<p>13. The finger-worn wearable ring device of claim 1, wherein the one or more sensors comprise a first light-emitting component configured to emit light associated with a first wavelength, and a second light-emitting component configured to emit light associated with a second wavelength different from the first wavelength.</p>	
<p>14. The finger-worn wearable ring device of claim 13, wherein the first wavelength is associated with visible light, and wherein the second wavelength is associated with infrared light.</p>	
<p>15. The finger-worn wearable ring device of claim 13, wherein the first light-emitting component is positioned within the finger-worn wearable ring device at a first radial position, and the second light-emitting component is positioned within the finger-worn wearable ring device at a second radial position different from the first radial position.</p>	
<p>16. The finger-worn wearable ring device of claim 15, wherein the one or more sensors further comprise a photodetector positioned within the finger-worn wearable ring device at a third radial position that is between the first radial position and the second radial position.</p>	

<p>17. The finger-worn wearable ring device of claim 1, wherein the external housing component and the internal housing component define the cavity configured to at least partially surround the battery, and the printed circuit board, wherein one of the external housing component or the internal housing component comprises: a first side wall and a second side wall that extend between the internal housing component and the external housing component, wherein the cavity is defined at least in part by the outer circumferential surface, the inner circumferential surface, the first side wall, and the second side wall.</p>	
<p>18. The finger-worn wearable ring device of claim 17, wherein the first side wall, the second side wall, or both, are substantially perpendicular to the inner circumferential surface, the outer circumferential surface, or both.</p>	