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(54) **SYSTEMS AND METHODS FOR INCREASING LOCALIZED PRESSURE TO IMPROVE PPG MOTION PERFORMANCE**

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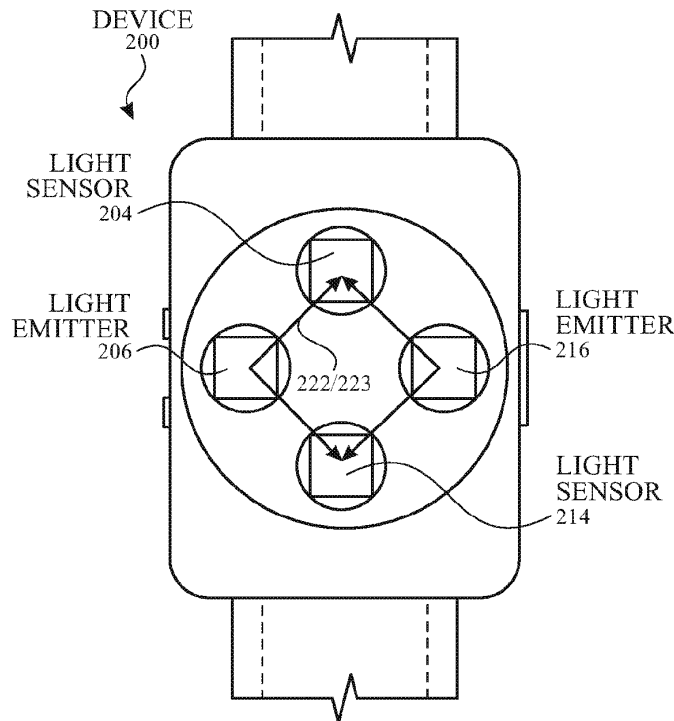
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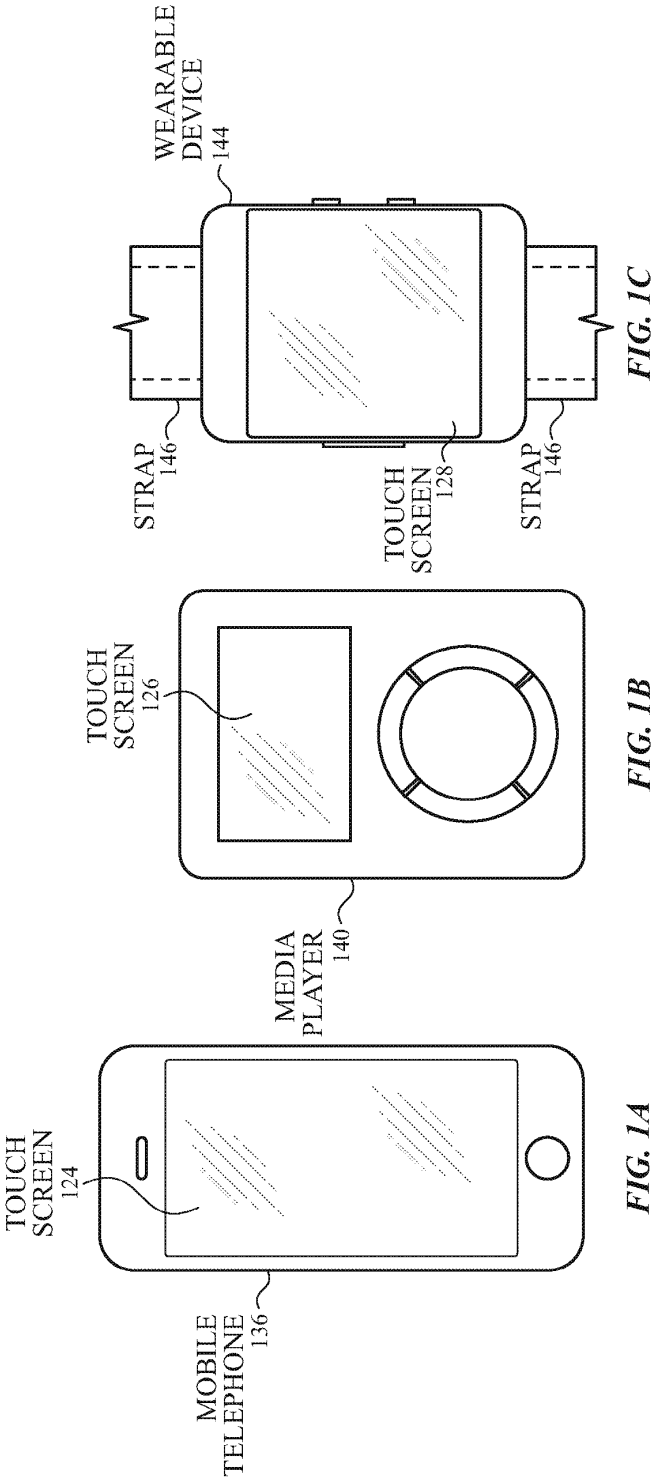
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(57) **ABSTRACT**

The relates to a back surface of the device including one or more protrusions configured to create the localized pressure. In some examples, the protrusion(s) can be located between the optical components and one or more edges of the back plate. In some examples, the protrusion(s) can include a surface that can be raised relative to the back plate of the device. In some examples, one or more protrusions can include one or more recessed regions. In some examples, the cover structure disposed over each of the openings may itself be a protrusion that can apply local regions of higher pressure. The protrusion(s) can be capable of applying localized pressure to multiple spatially separated regions of the skin. Additionally or alternatively, the protrusion(s) can be capable of applying different amounts of localized pressure. Examples of the disclosure can include the Fresnel lens(es) and/or optical isolation optically coupled to the protrusion.





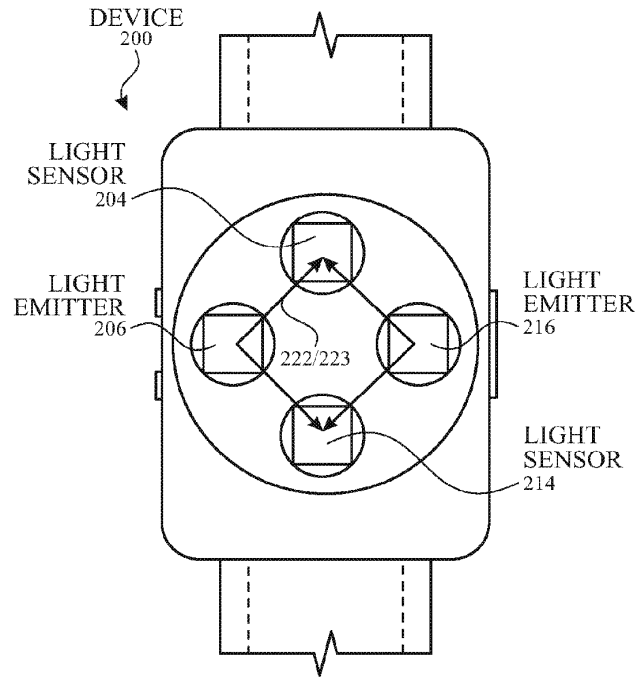


FIG. 2A

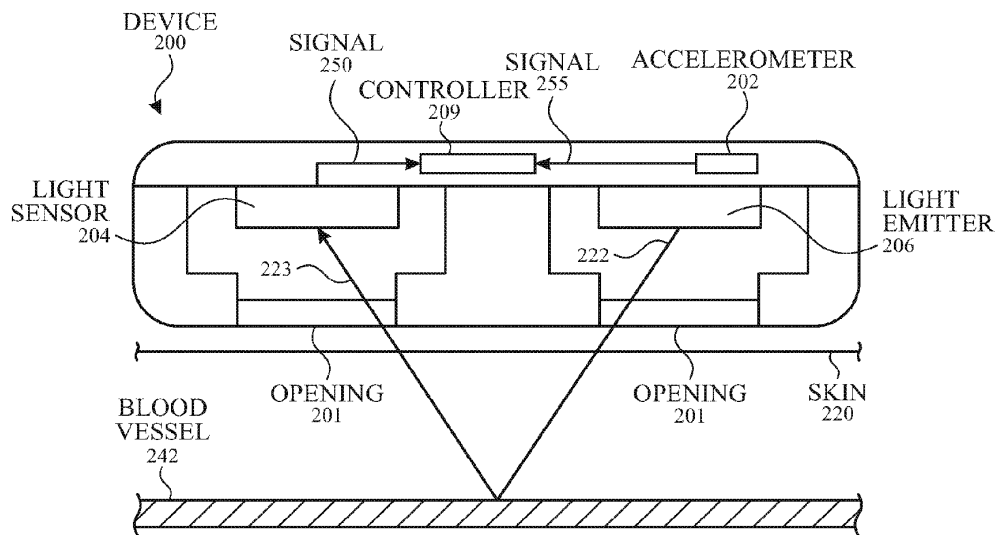


FIG. 2B

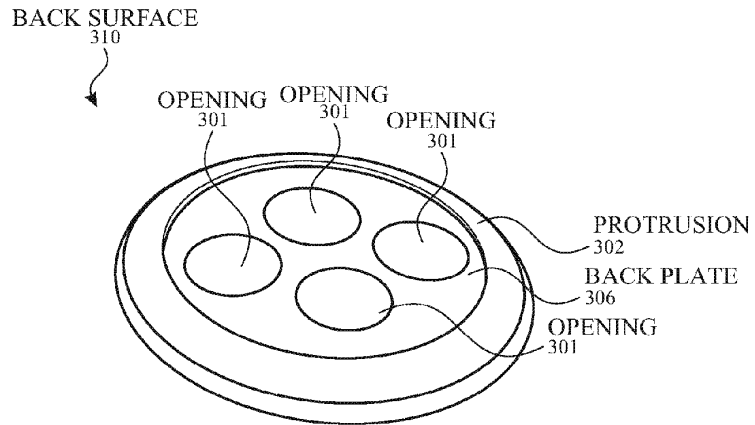


FIG. 3A

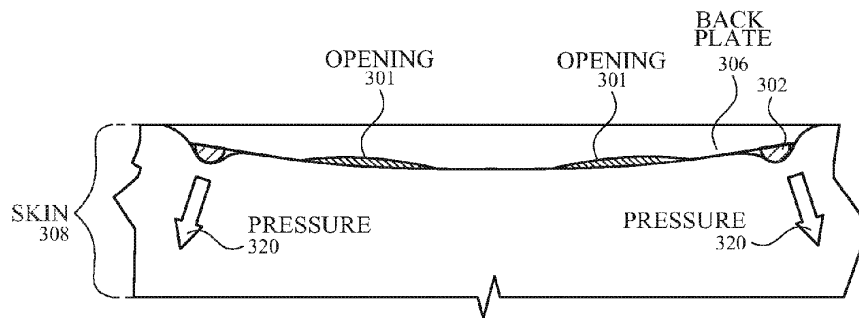


FIG. 3B

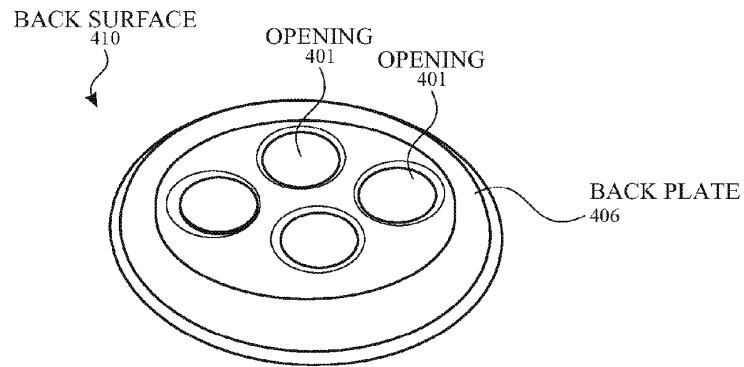


FIG. 4A

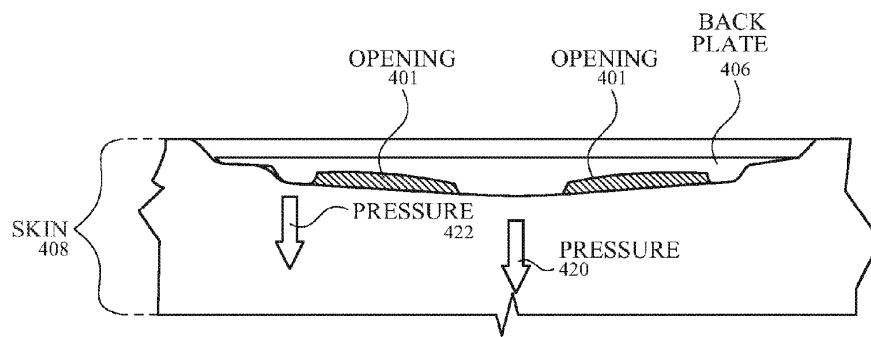


FIG. 4B

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