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Declarations under Rule 4.17:

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- (54) Title:** INFRA-RED REFLECTIVE OCCLUSION SENSORS

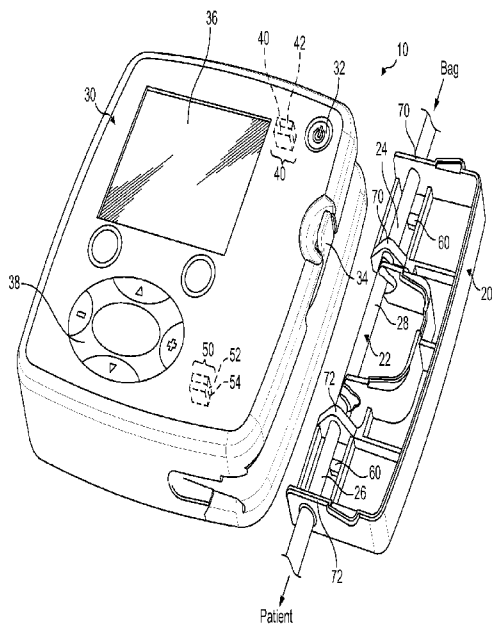


FIG. 1

- (57) Abstract:** Occlusion sensor systems and methods of using the occlusion sensor systems are provided. In a general embodiment, the present disclosure provides a sensor device includes a tube and an infra-red reflective sensor comprising an infra-red light emitter and an infra-red phototransistor receiver or photo-diode. The infra-red reflective sensor and the infra-red phototransistor receiver or photo-diode are positioned at or near the tube so that an infra-red light can be transmitted to a portion of the tube and at least a portion of the infra-red light reflected off the portion of the tube can be detected by the infra-red phototransistor receiver or photo-diode.



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- *as to the identity of the inventor (Rule 4.17(i))*
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
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