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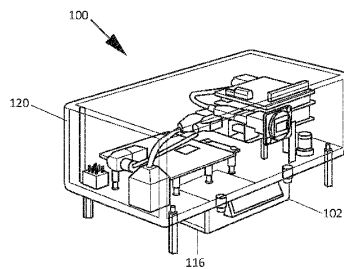


Figure 1a

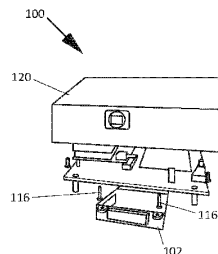


Figure 1b

(57) Abstract: A pest monitoring device is disclosed. The pest monitoring device includes a housing; an optical sensor configured to generate optical data related to an interior surface within the housing; and a processor in communication with the optical sensor. The processor is configured to receive optical data from the optical sensor; select optical data relating to at least one segment of the interior surface, the optical data relating to the at least one segment being arranged as a plurality of pixels. The processor is further configured to evaluate if the optical data corresponding to the least one segment meets a pre-determined condition associated with the interior surface by: counting the number of pixels of the plurality of pixels which indicate a light intensity below a pre-determined intensity value; and determining if the number of pixels having a light intensity below the pre-determined intensity limit is greater than or equal to a pre-determined pixel threshold value. The processor is further configured to determine, based on whether the optical data corresponding to the at least one segment meets the pre-determined condition associated with the interior surface, if there is an indication of a pest on the interior surface. A method of monitoring a pest trap is also disclosed.

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