

ABSTRACT

**METHODS AND CIRCUITS FOR PROVIDING BOLOMETER BIAS-HEATING
CANCELLATION**

5 A method for bolometer bias-heating cancellation suitable for both single bolometer and
a two-dimensional bolometer array is described. The method is based on the equivalence
between electrical and thermal capacitance. A replica of the bias heating is generated on
the electrical capacitance and used to cancel the bias heating of the bolometer. The
cancellation can be tailored to individual pixel in the array. Accordingly, the invention also
relates to circuits for providing bias heating cancellation.

10 (FIG. 1 is to be published)