

ABSTRACT**METHOD FOR DETECTING THE SPLITTING OF A SUBSTRATE
WEAKENED BY IMPLANTING ATOMIC SPECIES**

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The invention relates to a method for monitoring a heat treatment applied to a substrate comprising a weakened zone formed by implanting atomic species with a view to splitting said substrate along said weakened zone, the substrate (S) being arranged in a heating chamber (11), characterized in that it comprises recording sound in the interior or in the vicinity of the heating chamber (11) and detecting, in said recording, a sound emitted by the substrate (S) during the splitting thereof along the weakened zone.

The invention also relates to a device for the heat treatment of a batch of substrates, comprising an annealing furnace (1) comprising a heating chamber (11) intended to receive said batch, at least one microphone (3) configured to record sounds in the interior or in the vicinity of the heating chamber (11), and a processing system configured to detect, in an audio recording produced by said microphone, a sound emitted when a substrate splits.

Figure 2