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Laughner et al.

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(54) **MEDICAL DEVICES FOR MAPPING
CARDIAC TISSUE**

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See application file for complete search history.

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(57) **ABSTRACT**

Medical devices and methods for making and using medical
devices are disclosed. An example method may include a
method of identifying an activation time in a cardiac electrical
signal. The method may include sensing a cardiac electrical
signal, generating an approximation signal based at least in
part on one or more parameters of the cardiac electrical sig-
nal, identifying a fiducial point on the approximation signal
and determining, based at least in part on a timing of the
fiducial point in the approximation signal, an activation time
in the cardiac electrical signal.

20 Claims, 11 Drawing Sheets

