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(54) **DETECTION OF IN-BAND INTERFERENCE**

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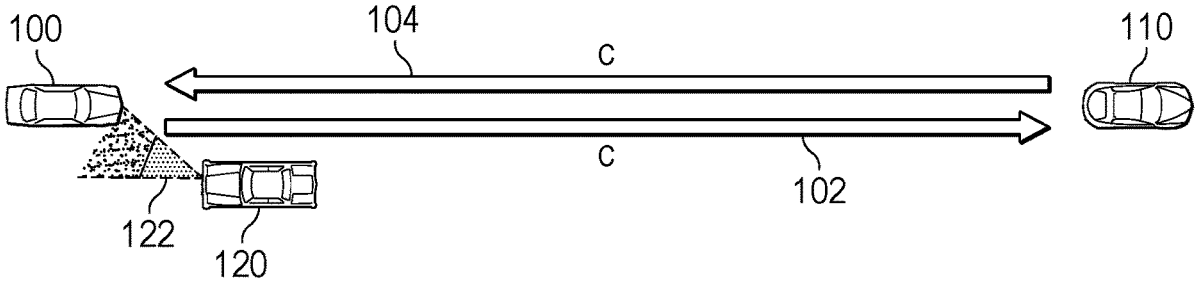
(57) **ABSTRACT**

A method is provided. In some examples, the method includes performing, by processing circuitry, a first transform operation on a first time-domain data set to generate a frequency-domain data set. In addition, the method includes determining, by the processing circuitry, that at least one portion of the frequency-domain data set satisfies a first threshold magnitude. The method also includes performing, by the processing circuitry, an inverse transform operation on the at least one portion of the frequency-domain data set to generate a second time-domain data set. The method further includes identifying, by the processing circuitry and based on the second time-domain data set, a region of interference in the first time-domain data set.