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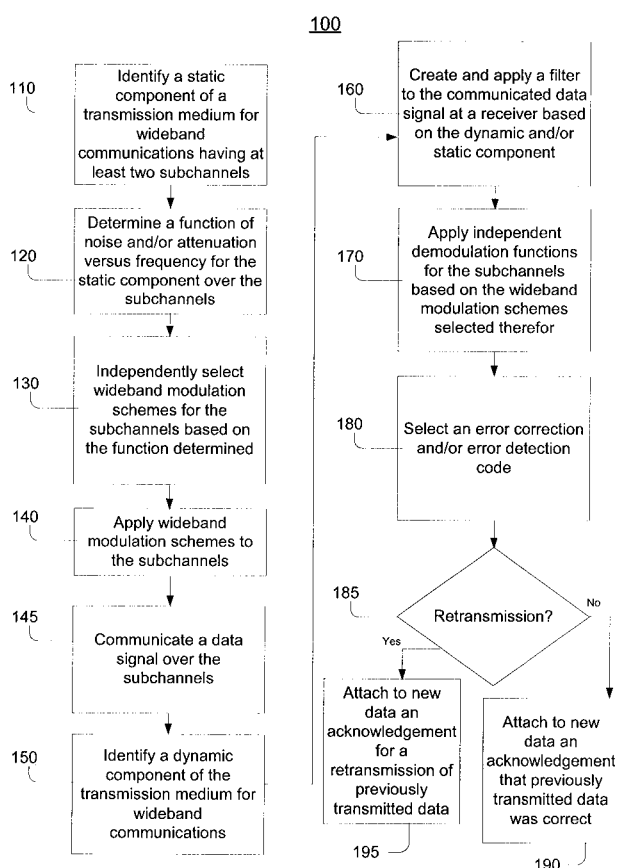
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(54) Title: COMMUNICATING DATA USING WIDEBAND COMMUNICATIONS



(57) Abstract: This disclosure relates to varying load and modulation applied to each of multiple frequency subchannels based on anticipated attenuation experienced by those subchannels. Communicating data includes identifying a static component of a transmission medium for wideband communications having at least two subchannels (110), determining a function of noise or attenuation versus frequency for the static component (120), selecting wideband modulation schemes for the subchannels based on the function determined (130, 140), and communicating a data signal over the subchannels (145). Independent demodulation functions may be applied to at least two of the subchannels.

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