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(54) **Title**: APPARATUS FOR GENERATING A DECORRELATED SIGNAL USING TRANSMITTED PHASE INFORMATION

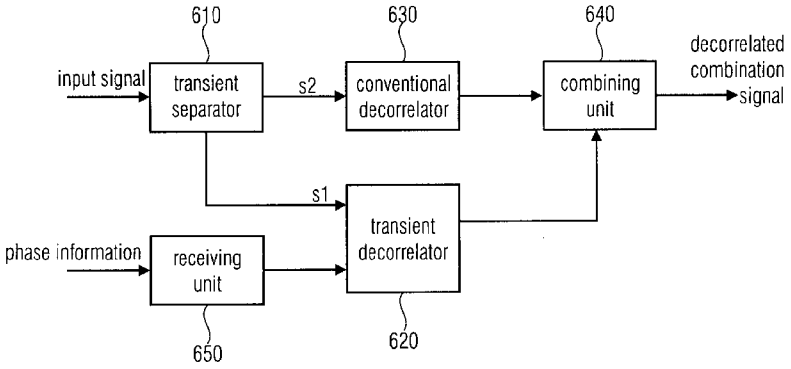


FIG 6

(57) **Abstract**: An apparatus for generating a decorrelated signal comprising a receiving unit (650) for receiving phase information, a transient separator (310; 410; 510; 610; 710; 910), a transient decorrelator (320; 420; 520; 620; 720; 920), a second decorrelator (330; 430; 530; 630; 730; 930) and a combining unit (340; 440; 540; 640; 740; 940), wherein the transient separator (310; 410; 510; 610; 710; 910) is adapted to separate an input signal into a first signal component and into a second signal component such that the first signal component comprises transient signal portions of the input signal and such that the second signal component comprises non-transient signal portions of the input signal. The transient decorrelator (320; 420; 520; 620; 720; 920) is adapted to apply the phase information received by the receiving unit (650) to a transient signal component.

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