



(54) **DIGITALLY CONTROLLED UNIFIED RECEIVER FOR MULTI-RANK SYSTEM**

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(57) **ABSTRACT**

A multi-rank circuit system includes multiple transmitters each switchably coupled to a first end of a shared input/output (IO) channel and a unified receiver coupled to a second end of the shared IO channel. The unified receiver is coupled to apply an analog reference voltage to set a differential output of the unified receiver, and further configured to apply a variable digital code to adjust the differential output according to a particular one of the transmitters that is switched to the shared IO channel.

