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(54) **METHOD FOR TRANSFERRING A CONTROL SIGNAL BETWEEN A FIRST DIGITAL DOMAIN AND A SECOND DIGITAL DOMAIN, AND CORRESPONDING SYSTEM-ON-A-CHIP**

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(57) **ABSTRACT**

A system-on-a-chip includes a first digital domain and a second digital domain. An interface circuit includes a level-shifting circuit for converting a signal between the first digital domain and the second digital domain. The first digital domain includes a control circuit configured to generate a control signal for transmission to the second digital domain. The control signal includes a pulse having a nominal duration adapted to the level-shifting circuit. At the input of the level-shifting circuit, the interface circuit includes, in the first domain, a conditional pulse-stretching circuit that lengthens a duration of the pulse of the control signal to at least the nominal duration when a duration of the pulse of the control signal is shorter than the nominal duration and non-zero.

