

## (19) United States

# (12) Patent Application Publication (10) Pub. No.: US 2022/0416781 A1

Bonache Martinez et al.

Dec. 29, 2022 (43) **Pub. Date:** 

### (54) PRECHARGE BUFFER STAGE CIRCUIT AND METHOD

(71) Applicant: Analog Devices International Unlimited Company, Limerick (IE)

(72) Inventors: Jesús Bonache Martinez, Valencia (ES); Italo Carlos Medina Sánchez Castro, Valencia (ES)

(21) Appl. No.: 17/721,590

(22) Filed: Apr. 15, 2022

#### Related U.S. Application Data

(60) Provisional application No. 63/216,367, filed on Jun. 29, 2021.

#### **Publication Classification**

(51) Int. Cl. H03K 17/687 (2006.01)H03F 3/45 (2006.01)

U.S. Cl. CPC ...... H03K 17/687 (2013.01); H03F 3/45475 (2013.01)

#### (57)ABSTRACT

A circuit may include or may be coupled to a precharge structure to reduce or minimize a net perturbation, caused by switching, in the input source. Apparatus and techniques shown herein may enable low input current operation in a signal chain of an analog circuit by such reduction or minimization of such perturbation.

