(19) INDIA

(22) Date of filing of Application :28/09/2023 (43) Publication Date : 20/10/2023

(54) Title of the invention: ENHANCED FLIPPED SOURCE FOLLOWER FILTER

(51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	:H03F0003500000, G11C0008080000, G11C0011407600, H03F0003345000, H03F0003450000 :NA :NA :NA :NA :NA	(71)Name of Applicant: 1)Chitkara University Address of Applicant: Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala 2)Chitkara Innovation Incubator Foundation Name of Applicant: NA Address of Applicant: NA (72)Name of Inventor: 1)THAKUR, Diksha Address of Applicant: Research Scholar, Department of Electronics and Communication Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala 2)SHARMA, Kulbhushan Address of Applicant: Assistant Professor, Department of Electronics and Communication Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala
---	--	---

(57) Abstract:

An enhanced flipped source follower filter circuit for low-power consumption at low-voltage is disclosed. The circuit comprise MOS transistor M1. M1 is an input transistor and a current sink diode connected to output of transistor (M3). The circuit further comprises MOS transistor M2 which is shunt-shunt feedback transistor, a capacitor C1 and a capacitor C2, a current source transistor (M5) and a current source transistor (M6), the MOS transistor M3 as a current sink diode connected and diode connected output transistor, and MOS transistor M4 as a level shifter transistor. The circuit achieves a low cut-off frequency without increasing area overheads, and the diode connected MOS transistors provide unity-gain, low-current operation and lower power consumption

No. of Pages: 12 No. of Claims: 10