

Title (en)
DIFFERENTIAL AMPLIFIER

Title (de)
DIFFERENZVERSTÄRKER

Title (fr)
AMPLIFICATEUR DIFFÉRENTIEL

Publication
EP 4183044 A1 20230524 (EN)

Application
EP 20746184 A 20200724

Priority
EP 2020070917 W 20200724

Abstract (en)
[origin: WO2022017620A1] A differential amplifier (100A) includes an input stage (102). The input stage (102) includes a first input transistor and a second input transistor. The differential amplifier (100A) further includes a first capacitor coupled between the first input transistor and the second input transistor, and a second capacitor coupled between the second input transistor and the first input transistor, for cancelling out the parasitic capacitance of each input transistor at least partially. The differential amplifier (100A) further includes one or more cascode stages (116, 128). Each cascode stage (116, 128) includes a first and a second cascode transistor, where the first cascode stage (116) is connected in series with the input stage (102). The differential amplifier (100A) further includes a first inductor pair that is connected between the input stage (102) and the first cascode stage (116) or between the first cascode stage (116) and a subsequent cascode stage (128).

IPC 8 full level
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CPC (source: EP)
H03F 3/087 (2013.01); **H03F 3/195** (2013.01); **H03F 3/245** (2013.01); **H03F 3/45089** (2013.01); **H03F 3/45475** (2013.01); **H03F 2200/451** (2013.01); **H03F 2203/45058** (2013.01); **H03F 2203/45311** (2013.01); **H03F 2203/45316** (2013.01); **H03F 2203/45318** (2013.01); **H03F 2203/45512** (2013.01)

Citation (search report)
See references of WO 2022017620A1

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Designated extension state (EPC)
BA ME

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KH MA MD TN

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