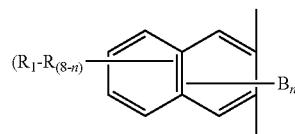




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(19) **United States**(12) **Patent Application Publication**
HILDEBRANDT et al.(10) **Pub. No.: US 2024/0237520 A1**(43) **Pub. Date: Jul. 11, 2024**(54) **DOPANTS FOR ELECTRONIC COMPONENTS, THEIR USE IN ELECTRONIC COMPONENTS, AND ELECTRONIC COMPONENTS WITH SUCH DOPANTS**(57) **ABSTRACT**

A chemical compound of the general formula I:



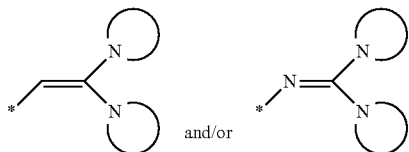
A

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§ 371 (c)(1),

(2) Date: **Oct. 2, 2023**

In some aspects, groups B are each independently selected from

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where * represents the attachment to group A. In some aspects,

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(2013.01); **H10K 85/615** (2023.02); **H10K**
30/50 (2023.02); **H10K 30/85** (2023.02);
H10K 50/165 (2023.02)is a heterocyclic ring having at least one nitrogen atom. In some aspects, $R_1-R_{(8-n)}$ are each independently selected from the group consisting of: H, halogen, alkyl, alkenyl, alkynyl, alkoxy, thioalkoxy, aryl, and heteroaryl. In some aspects, $R_1-R_{(8-n)}$ form at least one further fused ring on group A. In some aspects, n is a natural number greater than or equal to 1.

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