

Story of Pinned Buried Photodiode

For details, please visit http://www.aiplab.com/Story_of_Pinned_Buried_Photodiode_2021

①日本國特許庁(JP) ②特許出願公開
 ③公開特許公報(A) 昭54—95116

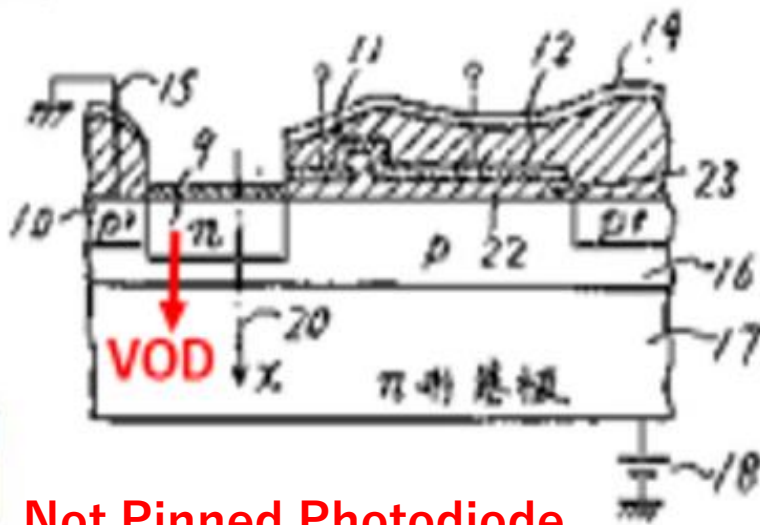
④公開 昭和54年(1979)7月27日

⑤固体撮像装置

⑥特 願 昭53—1971

⑦出 願 昭53(1978)1月13日

⑧発 明 者 山田哲生



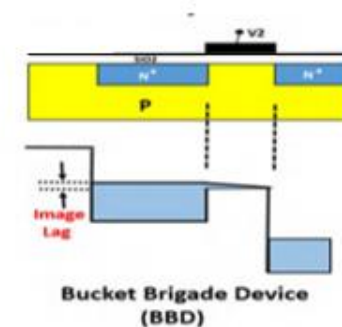
Not Pinned Photodiode.



Bucket Brigade Device (BBD)

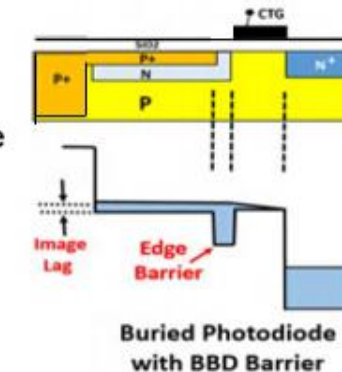
Applied Physics, vol. 18, Supplements 18-1, pp. 335-340, (1979)

- (1) Floating Surface N+P Single Junction type Photodiode with BBD Barrier causing the serious Image Lag problem



JPA1977-837

- (2) Partially Pinned but Floating Surface and not Buried Photodiode with the BBD Barrier causing the serious Image Lag problem



SSDM1978

- (3) Completely Pinned Buried Photodiode with no BBD barrier and the complete charge transfer capability of the no-image-lag feature, achieving the electric shutter function for the instant snapshot and fast motion pictures

