

JPA1977-126885 on Electronic Shutter in Pinned Photodiode invented in 1975

Electric Shutter Basic Patent Award
from Sony President Idei to Yoshiaki Hagiwara
for Japanese Patent 1977-128885 by Hagiwara



JPA1975-127646

JPA1975-127647

JPA1975-134985

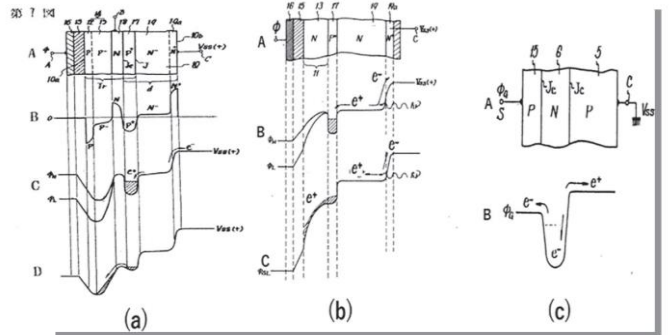


Figure 2: Reproductions from the Japanese Patent Applications of (a) the N+N-P+N-P triple junction PPD, (b) the N+N-P+N double junction PPD, and (c) the PNP double junction PPD.

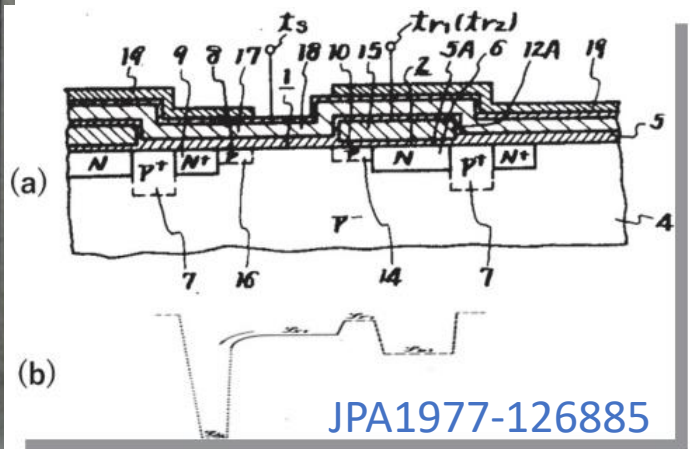


Figure 7: Figures reproduced from Japanese Patent Application JPA1977-126885: (a) sensor, (b) potential profile for the OFD punch-through action.

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JPA1975-134985 on PNP Pinned Photodiode with the Anti-blooming Vertical Overflow Drain (VOD)

