

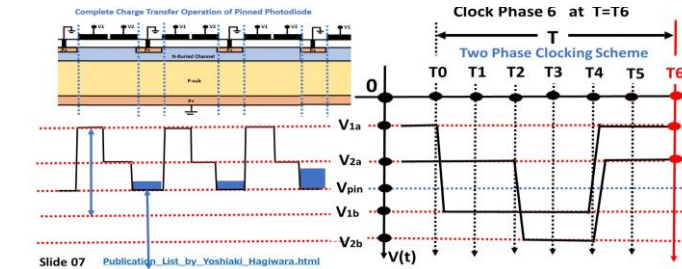
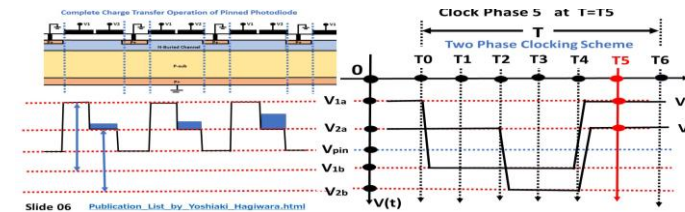
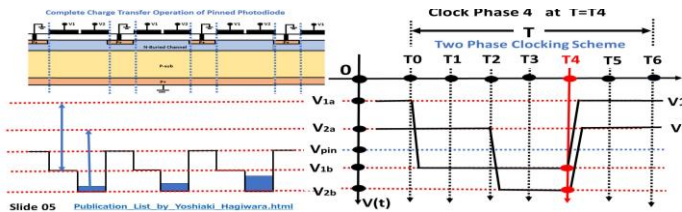
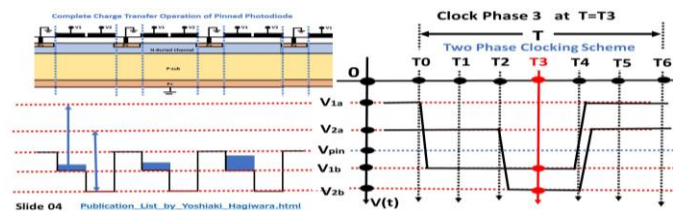
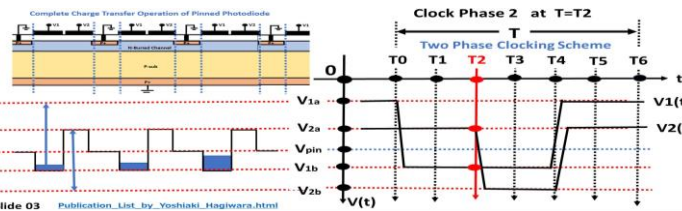
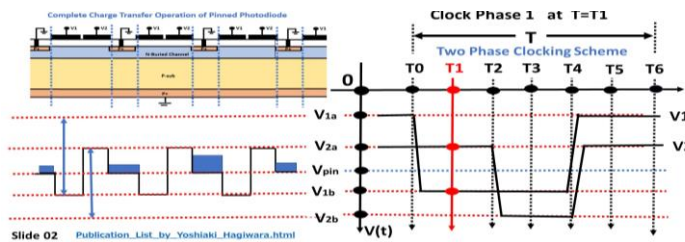
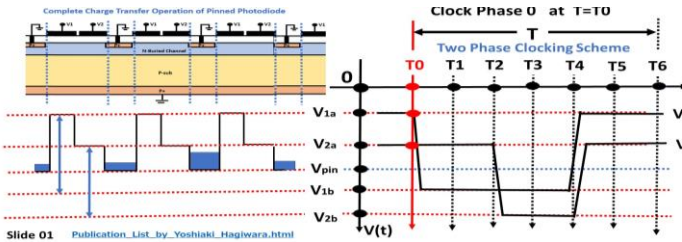
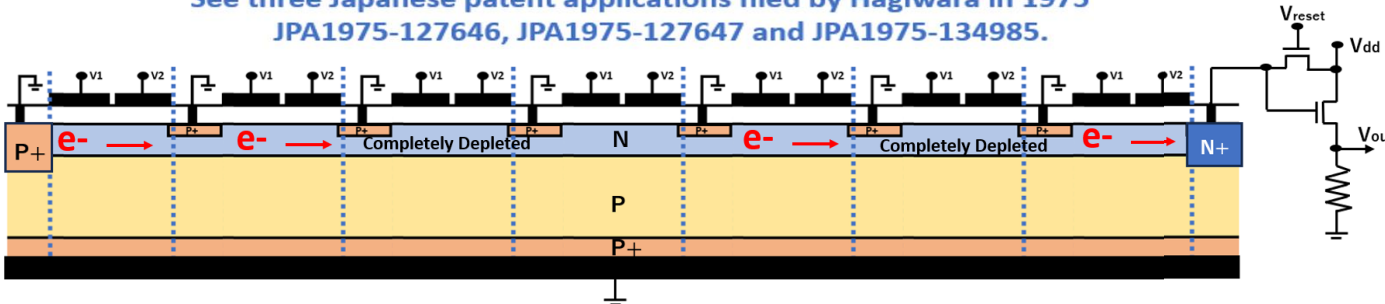
MP4 Video on

Complete Charge Transfer Operation of Pinned Photodiode

Virtual Phase Clock Operation Scheme became possible by Pinned Photodiode invented by Hagiwara in 1975.mp4

See three Japanese patent applications filed by Hagiwara in 1975

JPA1975-127646, JPA1975-127647 and JPA1975-134985.



Complete Charge Transfer Operation of Two Phase Clocking Scheme is possible with only two electrodes and the Pinned Surface Buried N region. The impurity atom doping variation is not necessary to achieve the complete charge transfer directionality.

[Publication List by Yoshiaki Hagiwara.html](http://Publication_List_by_Yoshiaki_Hagiwara.html)

The 1975 Invention of Pinned Photodiode hinted the 2020 invention of

P+PNPP+ Double Junction Pinned Photodiode type Solar Cell

