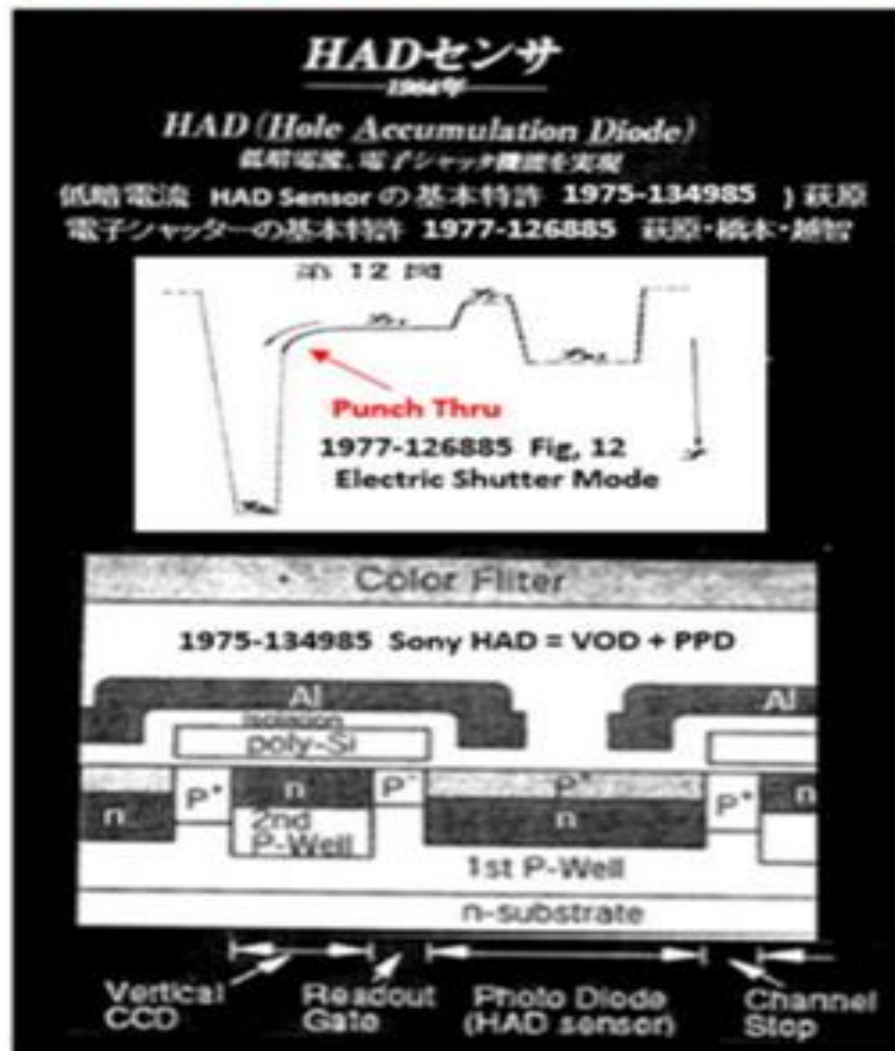


Hagiwara also proposed the thyristor type punch-thru clocking scheme, synchronized with the TV scanning system to achieve the electric shutter.

## The Pinned Photodiode (Sony Original HAD sensor) Structure



( from SONY Product Catalog )

Electric Shutter Basic Patent Award  
from Sony President Idei to Yoshiaki Hagiwara  
for Japanese Patent 1977-126885 by Hagiwara

