Critic of Warren Commission Disputes Film Timing of Assassination Shots

mainly private, rebuttals. contention evoked new, although should have been reckened at that a key timing for the assas-

earlier shot. The period at issue this key interval—or imply an would imply a second assassin argued that this shortened time Oswald as a lone assassin ably wounded by Lee Harvey and Gov. John B. Connally Jr. mission held, President Kennedy to account for three shots is the time in which, the com-The critic, Harold Weisberg, Texas were both most prob-

was "very persuasive evidence" second between shots would help explain such counterview to Mr. Weisberg's spite an apparent half-second wounds, with one hitting both that two bullets inflicted all the The commission held that there could be fired in 4.6 seconds. difference in their reactions. A he President and Governor debe that papaeds required 2.3 - three

Zapruder's movie camera, Zapruder film.



he was that person. A new book contradicts his testimony. nedy's assassination. Billy Nolan Lovelady, right, testified was photographed in a doorway during President Ken-A man thought to have been Lee Harvey Oswald, at left,

The book reproduced a Fed-pened, and that this had been Warren commission that the the Warren Commission.

The book reproduced a Fed-pened, and that this had been Warren commission that the the Warren report had noted in the film sequence involved charged with violating patents are interview with deciding to rely on a five-second passed through the camera was that Mr. Lovelady, supported by starts at Zapruder Frame 222 on Vitamin B-12, owned by Abraham Zapruder that said time derived from the original at 18.3 frames per second, the nerson resembling Oswald shows President Kennedy being Merck and Company of Rahams and context of the person resembling Oswald shows President Kennedy being Merck and Company of Rahams are the person resembling Oswald shows President Kennedy being Merck and Company of Rahams are the person resembling of the mental volumes of the Warren son, the company's president in the reconstruction, and noted that. Welsberg offered his report, that a filmed re-cract-added:

"We interpretation in his ment took only 3.5 seconds.

"We recently tested the Archives two of the three from the Presidential limousine Dr. Caesar O. Bottone, 39 years the book on the case.

"We recently tested the Archives two of the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by the F.B.I. had required an acknowledged old, was found guilty of crimi-photographs taken by t

was 24." "and it was set at 18-something, rate had been calculated by the said that "for a fleeting instant, 18.3 or 18.6 frames a second, I agency.

The Zapruder camera, Mr. view in the telescopic lens at

The F.B.I. document cited by cameras relied on,

Mr. Weisberg's was taken from loaded with film and had then Mr. Weisberg's book notes the National Archives. It was been used to photograph a clock that Mr. Zapruder's clear film numbered File DL 89-43, dated with a large sweep-second became blurred at Frame 190 Dec. 4, 1963, and credited to hand in several tests "at the and for several frames there. Agent Robert M. Barrett. speed and conditions as deafter, and suggested the ama-der, and suggested the ama-der, and suggested the ama-der, and suggested the ama-der, and suggested the same says he was a staff member. The cameras."

says he was a staff member. The Zapruder camera, he went resident wounded. The Office of Strategic Services in world war in analyst in per second."

the Office of Strategic Services The average speed of 18.3 frames are continuously form and an average speed of 18.3 frames are continuously form the believes was understood believed to take in different sections of photo position he was using. "Possibly I could have jogged when it was tightly wound, to was hit," he said, "but I was book. "Whitewash," privately getting run down.

lishing Company, Mr. Weisberg rescays his inquiries have put him the into debt, but he hopes to pub- icc. lish a collection of exhibits I He initially printed his first the end, where it book, "Whitewash," privately getting run down. by offset for 22,500 copies. This It was Mr. Shan week it was issued in a 95-cent supervised the re-ena by offset for 22,500 copies. This It was Mr. Shancyfelt who and this would make it a little week it was issued in a 95-cent supervised the re-enactment on indexed edition by the Dell Pub May 24, 1964, in Dallas for replishing Company. Mr. Weisberg resentatives of the commission, continuous motion," instead of says his inquiries have put him the F. B. I. and the Secret Servinto debt. but he hopes to bih-inruary.

than the rate the F.B.I. later Mr. Zapruder for its own his- in Dalias, meanwhile, Mr. cannot have been Lovelady," hit between Frames 210 and guilty on four counts of crimilused in its analysis—18.3 frames toric collection, to the National Zapruder, a manufacturer of and stressed that Mr. Lovelady 225 on the basis that an assas-builty on four counts of crimilused in its analysis—18.3 frames toric collection, to the National Zapruder, a manufacturer of and stressed that Mr. Lovelady 225 on the basis that an assas-builty on four counts of crimilused in its analysis—18.3 frames toric collection, to the National Zapruder, a manufacturer of and stressed that Mr. Lovelady, 225 on the basis that an assas-builty on four counts of crimilused in its analysis—18.3 frames toric collection, to the National Sapruder of and stressed that Mr. Lovelady, 225 on the basis that an assas-builty on four counts of crimilused in its analysis—18.3 frames toric collection, to the National Sapruder of and stressed that Mr. Lovelady, 225 on the basis that an assas-builty on four counts of crimilused in its analysis—18.3 frames toric collection, to the National Sapruder of and stressed that Mr. Lovelady, 25 on the basis that an assas-builty on four counts of crimilused in its analysis—18.3 frames toric collection, to the National Sapruder of and stressed that Mr. Lovelady, 25 on the basis that an assas-builty on four counts of crimilused in its analysis—18.3 frames toric collection, to the National Sapruder of and stressed that Mr. Lovelady, 25 on the basis that an assas-builty on four counts of crimilused in its analysis—18.3 frames toric collection, to the Sapruder of and stressed that Mr. Lovelady, 25 on the basis that an assas-builty on the Sapruder of and stressed that Mr. Lovelady, 25 on the basis that an assas-builty on the Sapruder of analysis—18.

Archives toric collection of the National Sapruder of an assas-builty of the National Sapruder of the National Sapruder of the National Sapruder of the National Saprude fact, our test showed the cam-the person resembling Oswald shows President Kennedy being

Weisberg's new book, that he frained from comment on the tween Frames 166 and 210. The believed he had never been in-issues raised by Mr Weisberg, commission said the first shot terviewed by an F.B.I. man. But a check of testimony showed that hit the President struck "I sent that camera down to that Lyndal L. Shaneyfelt, F.B.I. him at the back of the base of Washington twice to be photographic expert, had testi- the neck.

Washington Said, fied how the slower operating. The Warren commission also

Shaneyfelt

from the Archives next Feb- disputed the positioning of cars In his new book, Mr. Weis- in the reconstruction, and noted and photographing points used In his book, Mr. Weisberg Jersey Doctor Convicted

which took films of the assass. Meanwhile, the Bell & Howell era speed to be within less than who was photographed in a fatally shot in the head. The way ination, had been set to operate Company announced in Chicago one-tenth of a frame per sec doorway during the assassinal commission, headed by Chief The weeklong trial ended when the figure reported by the Mr. Weisberg contended Justice Earl Warren, held that a jury, after three hours of that "the man in the picture the President was probably first deliberation, found Dr. Bottone than the rate the F.B.I. later Mr. Zapruder for its own his- In Dalias, meanwhile, Mr. cannot have been Lovelady," hit between Frames 210 and mills on four counts of crimi-

ornder camera, Ar view in the telescopic lens at testified, and other Frame 186 as he appeared in clied on, had been an opening among the leaves." In film and had then Mr. Weisberg's book notes The Warren commission also

In Vitamin B-12 Case