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DECLARATION OF GERARD P. GRENIER

I, Gerard P. Grenier, am over twenty-one (21) years of age. I have never been convicted of a felony, and I am fully competent to make this declaration. I declare the following to be true to the best of my knowledge, information and belief:

- 1. I am Senior Director of Publishing Technologies of the Institute of Electrical and Electronics Engineers, Inc. ("IEEE").
- 2. IEEE is a neutral third party in this dispute.
- 3. Neither I nor IEEE itself is being compensated for this declaration.
- 4. Among my responsibilities as Senior Director of Publishing Technologies, I act as a custodian of certain records for IEEE.
- 5. I make this declaration based on my personal knowledge, information contained in the business records of IEEE, or confirmation with other responsible IEEE personnel with such knowledge.
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- It is the regular practice of IEEE to publish articles and other writings including article abstracts and make them available to the public through IEEE Xplore. IEEE maintains copies of publications in the ordinary course of its regularly conducted activities.
- 8. The article below, along with its abstract, has been attached as Exhibit A to this declaration:

A. B.M. Popovic, "Generalized chirp-like polyphase sequences with optimum correlation properties," IEEE Transactions on Information Theory, Vol. 38, Issue 4, July 1992.

- I obtained a copy of Exhibit A through IEEE Xplore, where it is are maintained in the ordinary course of IEEE's business. Exhibit A is a true and correct copy of the Exhibit as it existed on or about April 5, 2016.
- 10. The article abstracts from IEEE Xplore shows the date of publication. IEEE Xplore populates this information using the metadata associated with the publication.

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- 11. B.M, Popovic, "Generalized chirp-like polyphase sequences with optimum correlation properties" was published in IEEE Transactions on Information Theory, Vol. 38, Issue 4. The article abstract states that IEEE Transactions on Information Theory, Vol. 38, Issue 4 was published in July 1992. This publication happened no later than the last day of the month. The article is currently available for public download from the IEEE digital library, IEEE Xplore.
- 12. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001.

I declare under penalty of perjury that the foregoing statements are prue and correct.

Executed on: 5 April 2016

EXHIBIT A

DOCKET A L A R M Find authenticated court documents without watermarks at <u>docketalarm.com</u>. IEEE Xplore Abstract - Generalized chirp-like polyphase sequences with optimum correlation properties

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Generalized chirp-like polyphase sequences with optimum correlation properties

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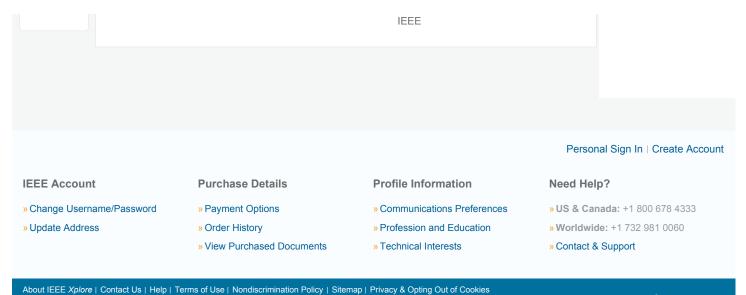
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1 B. M. Popovic ; IMTEL Inst. of Microwave Tech. & Electron., Novi Beogred, Yugoslavia Author(s) Yugoslavia											
Abstract	Authors	References	Cited By	Keywords	Metrics	Similar					
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Download Citations	A new general class										
Email	presented. The new class of sequences is based on the application of Zadoff-Chu polyphase sequences of length N=sm ² , where s and m are any positive integers. It is shown that the										
Print	generalized chirp-like sequences of odd length have the optimum crosscorrelation function under certain conditions. Finally, recently proposed generalized P4 codes are derived as a special case of the generalized chirp-like sequence										
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