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**4. Application or patent number(s):**

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

16/396,618

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

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**6. Total number of applications and patents involved:** 1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$** \_\_\_\_\_

- ☐ Authorized to be charged to deposit account  
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**9. Signature:**

Carol Petrosky  
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**PATENT**  
**REEL: 051502 FRAME: 0315**

# License to the United States Government

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Invention Title: Protocols for optical communication using vectorial optical fields

Inventor(s): Zhimin Shi

U.S. Filing/Issue Date: 04/26/2019

Patent or Application Serial No.: 16/396,618

Grant/Contract Number(s): N00014-17-1-2443

Foreign Applications filed/intended in (countries): \_\_\_\_\_

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Signed this 13 day of May, 20 19.

By Keith Anderson  
(Institutional Business Official)

  
(Signature)

Director, Sponsored Research  
Title \_\_\_\_\_

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