

## AUTHENTICATION METHOD FOR A COMPUTING DEVICE USING INTERACTIVE GAME BOARD AND GAME PIECE IMAGES

### Summary

The technology provides a new generation of password protection via interactive game boards and pieces on a computing device.

This authentication system involves users selecting a game board on a device's display, moving chosen pieces to form a unique passcode, which is then compared for access authentication. It adds a dynamic layer to traditional passcodes, potentially enhancing security through interactive and personalized authentication.

### Applications

- The Access Control Systems
- Memory Aid for Passcodes
- Dynamic Passcode Generation
- Variety of Game Options

### Advantages

- Versatility across devices
- Enhanced security
- Memory-friendly and Dynamic passcodes
- Adaptive authentication and User-friendly interface.



### IP Status

- U.S. Patent No. [11,354,395 B2](#)  
(issued June 07, 2022)

### Inventors

- Ye Zhu, Ph.D.  
*Professor,  
Electrical Engineering & Computer Science*
- Philip Manning, Ph.D.  
*Professor, Criminology & Sociology*
- Conor McLennan, Ph.D.  
*Professor, Psychology*

### Contact

Jack Kraszewski, Esq.  
*Director, Technology Transfer*

Phone: (216) 687-5108  
Email: [j.kraszewski@csuohio.edu](mailto:j.kraszewski@csuohio.edu)

Visit us on the Web:  
[www.csuohio.edu/technology-transfer](http://www.csuohio.edu/technology-transfer)

