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**MODELING AND SIMULATION OF HETEROJUNCTION SOLAR CELL WITH PHOTON-
IC CRYSTAL ON PHOTOACTIVE MATERIAL**

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CERTIFICATE OF GRANT INNOVATION PATENT

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The Commissioner of Patents has granted the above patent on 7 October 2020, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

MODELING AND SIMULATION OF HETEROJUNCTION SOLAR CELL WITH PHOTONIC CRYSTAL ON PHOTOACTIVE MATERIAL

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Term of Patent:

Eight years from 8 September 2020

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Dated this 7th day of October 2020

Commissioner of Patents

PATENTS ACT 1990

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