

PCT REQUEST

(Original in Electronic Form)

0	For receiving Office use only	
0-1	International Application No.	PCT/US25/52947
0-2	International Filing Date	28 October 2025 (28.10.2025)
0-3	Name of receiving Office and "PCT International Application"	RO/US PCT INTERNATIONAL APPLICATION
0-4	Form PCT/RO/101 PCT Request	
0-4-1	Prepared Using	ePCT-Filing for data package download Version 4.15.022 MT/FOP 20251014/2.8
0-5	Petition	
	The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	United States Patent and Trademark Office (USPTO) (RO/US)
0-7	Applicant's or agent's file reference	BicRO
I	Title of Invention	SELF-ORGANIZING BIC POLARITON SUPERSOLIDS, ALL-OPTICAL PARAMETRIC SELF-LOCKING, AND CHIP-SCALE PHOTONIC INTERFACES,
II	Applicant	
II-1	This person is	Applicant and inventor
II-2	Applicant for	All designated States
II-4	Name (LAST, First)	RAPHAEL, Oren
II-5	Address	4355 Sepulveda Blvd Apt 105 Sherman oaks, California 91403 United States of America
II-6	State of nationality	US
II-7	State of residence	US
II-8	Telephone No.	6286008825
II-10	e-mail	oren17@gmail.com
II-10(a)	E-mail authorization The receiving Office, the International Searching Authority, the International Bureau and the International Preliminary Examining Authority are authorized to use this e-mail address, if the Office or Authority so wishes, to send notifications issued in respect of this international application:	Email (with PDF attachment)
V	DESIGNATIONS	
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	
VI-1	Priority Claim	NONE
VII-1	International Searching Authority Chosen	United States Patent and Trademark Office (USPTO) (ISA/US)

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VIII		Declarations		Number of declarations			
VIII-1	Declaration as to the identity of the inventor	-					
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-					
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-					
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-					
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-					
IX		Check list		Number of sheets		Electronic file(s) attached	
IX-1	Request (including declaration sheets)		3		✓		
IX-2	Description ^16		^^ [---15-]		✓		
IX-3	Claims ^4		^^ [--3--]		✓		
IX-4	Abstract		1		✓		
IX-5	Drawings ^9		^^ [---6-]		✓		
IX-6a	Sequence listing part of the description		-		-		
IX-7	TOTAL ^33		^^ [--28-]				
		Accompanying Items		Paper document(s) attached		Electronic file(s) attached	
IX-8	Fee calculation sheet		-		✓		
IX-20	Figure of the drawings which should accompany the abstract	0					
IX-21	Language of filing of the international application	English					
X-1	Signature of applicant, agent or common representative	/Oren RAPHAEL/					
X-1-1	Name (LAST, First)	RAPHAEL, Oren					
X-1-3	Capacity (if such capacity is not obvious from reading the request)						

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10-1	Date of actual receipt of the purported international application	28 October 2025 (28.10.2025)
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/US
10-6	Transmittal of search copy delayed until search fee is paid	

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11-1	Date of receipt of the record copy by the International Bureau	
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