

STARMESH GLOBALTM WORLDWIDE PATENT PORTFOLIO OVERVIEW

PATENT NO./APPL. NO.	COUNTRY	PAT. ISSUE / APPL. FILING DATE	PRIORITY DATE	STATUS
A: RADIO SYSTEM USING SATELLITES				
("BENT PIPE")				
Pat. No. 10,084,536	United States	9/25/18	8/25/16	In force - expires 7/21/37
Pat. No. 10,998,962	United States	5/4/21	8/25/16	In force - expires 7/21/37
App. No. 17/214,821	United States	3/27/21	8/25/16	Pending (Pub. No. US 2021/0344412)
FAMILY B: RADIO SYSTEM USING NODES				
("ROTATING SATELLITES")				
Pat. No. 10,447,381	United States	10/15/19	8/25/16	In force – expires 8/23/37
Pat. No. 11,038,586	United States	6/15/21	8/25/16	In force – expires 8/23/37
App. No. 17/317,310	United States	3/27/21	8/25/16	Pending (Pub. No. US 2021/0399793)
	Forei	gn Patents & Application	ns	
Pat. No. ZL 2017800519208	China	11/24/20	8/25/16	In force – expires 8/23/37
Pat. No. ZL 2020112170244	China	7/21/22	8/25/16	In force – expires 8/23/37
Pat. No. HK40006930	Hong Kong	8/20/21	8/25/16	In force – expires 8/23/37
Pat. No. EP3504808	European PO	7/27/22	8/25/16	In force – expires 8/23/37
App. No. 201927009397	India	3/11/19	8/25/16	Pending
Pat. No. 264883	Israel	5/28/20	8/25/16	In force – expires 8/23/37
App. No. 2019-507247	Japan	2/5/19	8/25/16	Pending
Pat. No. 370247	Mexico	12/5/19	8/25/16	In force – expires 8/23/37
Pat. No. RP:NG/PT/2018/2945	Nigeria	11/19/18	8/25/16	In force – expires 8/23/37
App. No. 1-2019-550023	Philippines	2/8/19	8/25/16	Pending
App. No. 10202102036V	Singapore	2/27/21	8/25/16	Pending
Pat. No. 2019/00468	South Africa	9/25/19	8/25/16	In force – expires 8/23/37
FAMILY C: RADIO SYSTEM USING NODES WIT	H HIGH GAIN ANTEN	INAS		
("STAR ANTENNA")				
Pat. No. 10,085,200	United States	9/25/18	9/29/17	In force – expires 9/29/37
Pat. No. 10,791,493	United States	9/29/20	9/29/17	In force – expires 9/29/37
Pat. No. 11,356,921	United States	6/7/22	9/29/17	In force – expires 9/29/37
App. No. 17/752,912	United States	5/25/22	9/29/17	Pending (Pub. No. US 2022/0408339)
		Foreign Applications		
App. No. 2018341561	Australia	4/15/20	9/29/17	Pending
App. No. 3076010	Canada	3/16/20	9/29/17	Pending
Pat. No. ZL 2018800627936	China	6/17/22	9/29/17	In force – expires 9/27/38
App. No. ZL 2022106613390	China	6/13/22	9/29/17	Pending
App. No. 62020022409.0	Hong Kong	12/8/20	9/29/17	Pending
App. No. 18 860 787.3-1215	European PO	4/3/20	9/29/17	Pending
App. No. 202027017798	India	4/26/20	9/29/17	Pending
App. No. 2020-516855	Japan	3/23/20	9/29/17	Allowed
App. No. 2023-027389	Japan	2/24/23	9/29/17	Pending
App. No. 10-2020-7012073	South Korea	4/24/20	9/29/17	Allowed
App. No. MX/a/2020/003736	Mexico	4/16/20	9/29/17	Pending
App. No. NG/PT/C/2020/4428	Nigeria	3/20/20	9/29/17	Pending
App. No. 1-2020-550083	Philippines	3/13/20	9/29/17	Pending
Pat. No. 11202002249R	Singapore	10/19/22	9/29/17	In force – expires 9/27/38
App. No. 102022509250Q	Singapore	9/6/22	9/6/22	Pending



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FAMILY D: DATA TRANSMISSION SYSTEMS	AND METHODS USING	SATELLITE-TO-SATELLIT	E RADIO LINKS	
("ROUTES BY ORBITAL KNOWLEDGE")				
Pat. No. 10,291,316	United States	5/14/19	12/11/17	In force – expires 7/13/38
Pat. No. 10,784,953	United States	9/22/20	12/11/17	In force – expires 7/13/38
Pat. No. 11,206,079	United States	12/21/21	12/11/17	In force – expires 7/13/38
App. No. 17/540,470	United States	12/2/21	12/11/17	Pending (Pub. No. US 2021/0231758)
App. No. 3083425	Canada	12/5/20	12/11/17	Pending
App. No. 2018800854658	China	7/3/20	12/11/17	Pending
App. No. 62021024812.1	Hong Kong	2/3/21	12/11/17	Pending
App. No. NC2020/0008363	Colombia	7/7/20	12/11/17	Pending
App. No. 18 888 292.2-1205	European PO	12/5/20	12/11/17	Pending
App. No. 202027029277	India	7/9/20	12/11/17	Pending
App. No. 2020-529759	Japan	6/1/20	12/11/17	Pending
App. No. 10-2020-7019847	South Korea	7/9/20	12/11/17	Pending
App. No. MX/a/2020/005990	Mexico	6/8/20	12/11/17	Pending
App. No. NG/PT/C/2020/4632	Nigeria	6/10/20	12/11/17	Pending
App. No. 1-2020-550668	Philippines	5/20/20	12/11/17	Pending
App. No. 11202004637S	Singapore	5/19/20	12/11/17	Pending
FAMILY E: COMMUNICATIONS SYSTEMS AN	ID METHODS WITH ST	OCHASTICALLY DISTRIB	UTED ORBITING SATE	LITES
"ROUTING ALGORITHMS FOR SATELLITE C	OMMUNICATIONS")			
Pat. No. 10,979,136	United States	4/13/21	7/12/18	In force – expires 7/11/39
App. No. 17/203,789	United States	3/17/21	7/12/18	Pending (Pub. No. US 2021/0344409)
		Foreign Applications		
App. No. 2019301682	Australia	12/22/20	7/12/18	Pending
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App. No. 3104677	Australia	12/22/20		· •
App. No. 3104677 App. No. 2019800553138	Australia Canada	12/22/20 12/21/20	7/12/18	Pending
App. No. 3104677 App. No. 2019800553138 App. No. 19 834 930.0-1205	Australia Canada China	12/22/20 12/21/20 2/22/21	7/12/18 7/12/18	Pending Allowed
App. No. 3104677 App. No. 2019800553138 App. No. 19 834 930.0-1205 App. No. 62021042678.4	Australia Canada China European PO	12/22/20 12/21/20 2/22/21 2/12/21	7/12/18 7/12/18 7/12/18	Pending Allowed Pending
App. No. 3104677 App. No. 2019800553138 App. No. 19 834 930.0-1205 App. No. 62021042678.4 App. No. 202027029277	Australia Canada China European PO Hong Kong	12/22/20 12/21/20 2/22/21 2/12/21 11/18/21	7/12/18 7/12/18 7/12/18 7/12/18	Pending Allowed Pending Pending
App. No. 3104677 App. No. 2019800553138 App. No. 19 834 930.0-1205 App. No. 62021042678.4 App. No. 202027029277 App. No. 279844	Australia Canada China European PO Hong Kong India	12/22/20 12/21/20 2/22/21 2/12/21 11/18/21 2/11/21	7/12/18 7/12/18 7/12/18 7/12/18 7/12/18	Pending Allowed Pending Pending Pending
App. No. 3104677 App. No. 2019800553138 App. No. 19 834 930.0-1205 App. No. 62021042678.4 App. No. 202027029277 App. No. 279844 App. No. 2020-529759	Australia Canada China European PO Hong Kong India Israel	12/22/20 12/21/20 2/22/21 2/12/21 11/18/21 2/11/21 12/29/20	7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18	Pending Allowed Pending Pending Pending Pending Pending
App. No. 3104677 App. No. 2019800553138 App. No. 19 834 930.0-1205 App. No. 62021042678.4 App. No. 202027029277 App. No. 279844 App. No. 2020-529759 App. No. 10-2021-7004339	Australia Canada China European PO Hong Kong India Israel Japan	12/22/20 12/21/20 2/22/21 2/12/21 11/18/21 2/11/21 12/29/20 1/4/21	7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18	Pending Allowed Pending Pending Pending Pending Pending Pending
App. No. 3104677 App. No. 2019800553138 App. No. 19 834 930.0-1205 App. No. 62021042678.4 App. No. 202027029277 App. No. 279844 App. No. 2020-529759 App. No. 10-2021-7004339 App. No. MX/a/2021/000301	Australia Canada China European PO Hong Kong India Israel Japan South Korea	12/22/20 12/21/20 2/22/21 2/12/21 11/18/21 2/11/21 12/29/20 1/4/21 2/11/21	7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18	Pending Allowed Pending Pending Pending Pending Pending Pending Pending Pending
App. No. 3104677 App. No. 2019800553138 App. No. 19 834 930.0-1205 App. No. 62021042678.4 App. No. 202027029277 App. No. 279844 App. No. 2020-529759 App. No. 10-2021-7004339 App. No. MX/a/2021/000301 App. No. NG/PT/C/2021/5140	Australia Canada China European PO Hong Kong India Israel Japan South Korea Mexico	12/22/20 12/21/20 2/22/21 2/12/21 11/18/21 2/11/21 12/29/20 1/4/21 2/11/21	7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18	Pending Allowed Pending Pending Pending Pending Pending Pending Pending Pending Pending
App. No. 3104677 App. No. 2019800553138 App. No. 19 834 930.0-1205 App. No. 62021042678.4 App. No. 202027029277 App. No. 279844 App. No. 2020-529759 App. No. 10-2021-7004339 App. No. MX/a/2021/000301 App. No. NG/PT/C/2021/5140 App. No. 1-2021-550110	Australia Canada China European PO Hong Kong India Israel Japan South Korea Mexico Nigeria	12/22/20 12/21/20 2/22/21 2/12/21 11/18/21 2/11/21 12/29/20 1/4/21 2/11/21 1/11/21 1/1/21	7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18	Pending Allowed Pending
App. No. 3104677 App. No. 2019800553138 App. No. 19 834 930.0-1205 App. No. 62021042678.4 App. No. 202027029277 App. No. 279844 App. No. 2020-529759 App. No. 10-2021-7004339 App. No. MX/a/2021/000301 App. No. NG/PT/C/2021/5140 App. No. 1-2021-550110 App. No. 11202012897W	Australia Canada China European PO Hong Kong India Israel Japan South Korea Mexico Nigeria Philippines	12/22/20 12/21/20 2/22/21 2/12/21 11/18/21 2/11/21 12/29/20 1/4/21 2/11/21 1/11/21 1/1/21	7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18	Pending Allowed Pending
App. No. 3104677 App. No. 2019800553138 App. No. 19 834 930.0-1205 App. No. 62021042678.4 App. No. 202027029277 App. No. 279844 App. No. 10-2021-7004339 App. No. 10-2021-7004339 App. No. NG/PT/C/2021/5140 App. No. 1-2021-550110 App. No. 11202012897W App. No. 2021/00600	Australia Canada China European PO Hong Kong India Israel Japan South Korea Mexico Nigeria Philippines Singapore	12/22/20 12/21/20 2/22/21 2/12/21 11/18/21 2/11/21 12/29/20 1/4/21 2/11/21 1/11/21 1/11/21 1/12/21 12/22/20	7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18	Pending Allowed Pending
App. No. 3104677 App. No. 2019800553138 App. No. 19 834 930.0-1205 App. No. 62021042678.4 App. No. 202027029277 App. No. 279844 App. No. 2020-529759 App. No. 10-2021-7004339 App. No. MX/a/2021/000301 App. No. NG/PT/C/2021/5140 App. No. 1-2021-550110 App. No. 11202012897W App. No. 2021/00600 App. No. 2023/04094	Australia Canada China European PO Hong Kong India Israel Japan South Korea Mexico Nigeria Philippines Singapore South Africa	12/22/20 12/21/20 2/22/21 2/12/21 11/18/21 2/11/21 12/29/20 1/4/21 2/11/21 1/11/21 1/1/21 1/12/21 12/22/20 1/27/21	7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18	Pending Allowed Pending
App. No. 3104677 App. No. 2019800553138 App. No. 19 834 930.0-1205 App. No. 62021042678.4 App. No. 202027029277 App. No. 279844 App. No. 2020-529759 App. No. 10-2021-7004339 App. No. MX/a/2021/000301 App. No. NG/PT/C/2021/5140 App. No. 11202012897W App. No. 11202012897W App. No. 2021/00600 App. No. 2023/04094 App. No. 1-2021-00751	Australia Canada China European PO Hong Kong India Israel Japan South Korea Mexico Nigeria Philippines Singapore South Africa Vietnam	12/22/20 12/21/20 2/22/21 2/12/21 11/18/21 2/11/21 12/29/20 1/4/21 2/11/21 1/11/21 1/12/21 12/22/20 1/27/21 4/3/23 2/9/21	7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18	Pending Allowed Pending
App. No. 2019301682 App. No. 3104677 App. No. 2019800553138 App. No. 19 834 930.0-1205 App. No. 62021042678.4 App. No. 202027029277 App. No. 279844 App. No. 10-2021-7004339 App. No. 10-2021-7004339 App. No. MX/a/2021/000301 App. No. NG/PT/C/2021/5140 App. No. 11202012897W App. No. 2023/04094 App. No. 1-2021-00751 FAMILY F: DATA TRANSMISSION SYSTEMS	Australia Canada China European PO Hong Kong India Israel Japan South Korea Mexico Nigeria Philippines Singapore South Africa Vietnam	12/22/20 12/21/20 2/22/21 2/12/21 11/18/21 2/11/21 12/29/20 1/4/21 2/11/21 1/11/21 1/12/21 12/22/20 1/27/21 4/3/23 2/9/21	7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18 7/12/18	Pending Allowed Pending



STARMESH GLOBALTM WORLDWIDE PATENT PORTFOLIO OVERVIEW

PATENT NO./APPL. NO.	COUNTRY	PAT. ISSUE / APPL. FILING DATE	PRIORITY DATE	STATUS
FAMILY G: DATA TRANSMISSION SYSTEMS AND	METHODS FOR L	OW AND VERY LOW EAR	TH ORBIT SATELLITES	
("AERODYNAMIC LEO AND VLEO SATELLITES")				
App. No. 17/367,663	United States	7/6/21	7/10/20	Pending (Pub. No. US 2022/0029699)
	ļ l	oreign Applications		
App. No. BR112022026213-2	Brazil	12/21/22	7/10/20	Pending
App. No. 3187423	Canada	12/15/22	7/10/20	Pending
App. No. 2021800486982	China	1/6/23	7/10/20	Pending
App No. 21838154.9	European PO	2/6/23	7/10/20	Pending
App. No. 202317007372	India	2/6/23	7/10/20	Pending
App. No. NG/PT/PCT/2023/6828	Nigeria	1/4/23	7/10/20	Pending
FAMILY H: SATELLITE MESH SYSTEMS AND METH	HODS FOR CREAT	ING RADIO ROUTES BE	TWEEN MOVING USERS	
("CONNECTING MOVING USERS VIA SATELLITES"	"			
App. No. 17/539,236	United States	12/1/21	12/2/20	Pending (Pub. No. US 2022/0173795)
FAMILY I: SYSTEMS AND METHODS FOR CREATI	NG RADIO ROUTI	ES AND TRANSMITTING	DATA VIA ORBITING AN	ID NON-ORBITING NODES
("WORLDWIDE COMMUNICATIONS USING DRON	ES AND SATELLIT	ES")		
App. No. 17/539,240	United States	12/1/21	12/2/20	Pending (Pub. No. US 2022/0173796)