



STARMESH GLOBAL™ WORLDWIDE PATENT PORTFOLIO OVERVIEW

PATENT / APP. NO.	COUNTRY	ISSUE/APPL. FILING DATE	PRIORITY DATE	STATUS
FAMILY A: "BENT PIPE"				
Pat. No. 10,084,536	United States	September 25, 2018	August 25, 2016	In force - expires 7/21/37
Pat. No. 10,998,962	United States	May 4, 2021	August 25, 2016	In force - expires 7/21/37
Pat. No. 11,855,745	United States	December 26, 2023	August 25, 2016	In force - expires 7/21/37
Pat. No. 12,335,024	United States	June 17, 2025	August 25, 2016	In force - expires 7/21/37

FAMILY B: "ROTATING SATELLITES"				
Pat. No. 10,447,381	United States	October 15, 2019	August 25, 2016	In force – expires 8/23/37
Pat. No. 11,038,586	United States	June 15, 2021	August 25, 2016	In force – expires 8/23/37
Pat. No. 12,191,975	United States	January 7, 2025	August 25, 2016	In force - expires 8/23/37
FOREIGN PATENTS & APPLICATIONS				
Pat. No. ZL 2017800519208	China	November 24, 2020	August 25, 2016	In force – expires 8/23/37
Pat. No. 3 504 808	European PO	July 27, 2022	August 25, 2016	In force in DE, FR, GB – expires 8/23/37
Pat. No. 534537	India	April 23, 2024	August 25, 2016	In force – expires 8/23/37
Pat. No. 264883	Israel	May 28, 2020	August 25, 2016	In force – expires 8/23/37
Pat. No. 7245584	Japan	March 15, 2023	August 25, 2016	In force – expires 8/23/37
Pat. No. 370247	Mexico	December 5, 2019	August 25, 2016	In force – expires 8/23/37
Pat. No. I-2019-550023	Philippines	July 17, 2024	August 25, 2016	In force – expires 8/23/37
App. No. 10202102036V	Singapore	February 27, 2021	August 25, 2016	Pending

FAMILY C: "STAR ANTENNA"				
Pat. No. 10,085,200	United States	September 25, 2018	September 29, 2017	In force – expires 9/29/37
Pat. No. 10,791,493	United States	September 29, 2020	September 29, 2017	In force – expires 9/29/37
Pat. No. 11,356,921	United States	June 7, 2022	September 29, 2017	In force – expires 9/29/37
Pat. No. 11,832,160	United States	November 28, 2023	September 29, 2017	In force – expires 9/29/37
App. No. 18/387,878	United States	November 8, 2023	September 29, 2017	Pending (Pub. No. US 2024/0098616)



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FAMILY C: "STAR ANTENNA"				
FOREIGN PATENTS & APPLICATIONS				
Pat. No. 2018341561	Australia	February 27, 2023	September 29, 2017	In force – expires 9/27/38
Pat. No. 2023203635	Australia	October 31, 2024	September 29, 2017	In force – expires 9/27/38
App. No. 3076010	Canada	March 16, 2020	September 29, 2017	Pending
Pat. No. ZL 2022106613390	China	March 29, 2024	September 29, 2017	In force – expires 9/27/38
Pat. No. HK 40032247	Hong Kong	February 24, 2023	September 29, 2017	In force – expires 9/27/38
Pat. No. HK 40096829	Hong Kong	March 1, 2024	September 29, 2017	In force – expires 9/27/38
App. No. 18 860 787.3-1215	European PO	April 3, 2020	September 29, 2017	Pending
Pat. No. 529760	India	March 22, 2024	September 29, 2017	In force – expires 9/27/38
Pat. No. 7235734	Japan	February 28, 2023	September 29, 2017	In force – expires 9/27/38
Pat. No. 10-2539125	South Korea	May 26, 2023	September 29, 2017	In force – expires 9/27/38
Pat. No. 10-2737101	South Korea	November 27, 2024	September 29, 2017	In force – expires 9/27/38
Pat. No. 415591	Mexico	August 5, 2024	September 29, 2017	In force – expires 9/27/38
App. No. 1-2020-550083	Philippines	March 13, 2020	September 29, 2017	Pending

Pat. No. 10,291,316	United States	May 14, 2019	December 11, 2017	In force – expires 7/13/38
Pat. No. 10,784,953	United States	September 22, 2020	December 11, 2017	In force – expires 7/13/38
Pat. No. 11,206,079	United States	December 21, 2021	December 11, 2017	In force – expires 7/13/38
Pat. No. 12,074,686	United States	August 27, 2024	December 11, 2017	In force – expires 7/13/38
FOREIGN PATENTS & APPLICATIONS				
Pat. No. CN 111566948	China	June 23, 2023	December 11, 2017	In force – expires 12/4/38
App. No. 620210248121	Hong Kong	February 3, 2021	December 11, 2017	Pending
App. No. 18 888 292.2-1205	European PO	December 5, 2020	December 11, 2017	Pending
Pat. No. 7366018	Japan	October 12, 2023	December 11, 2017	In force – expires 12/4/38
App. No. 10-2020-7019847	South Korea	July 9, 2020	December 11, 2017	Pending



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FAMILY E: "ROUTING ALGORITHMS FOR STOCHASTIC-ORBIT SATELLITES"				
Pat. No. 10,979,136	United States	April 13, 2021	July 12, 2018	In force – expires 7/11/39
Pat. No. 12,063,101	United States	August 13, 2024	July 12, 2018	In force – expires 7/11/39
App. No. 18/610,345	United States	March 20, 2024	July 12, 2018	Pending (Pub. No. US 2024/0250751)
FOREIGN PATENTS & APPLICATIONS				
Pat. No. 2019301682	Australia	February 20, 2025	July 12, 2018	In force – expires 7/10/39
App. No. 3104677	Canada	December 21, 2020	July 12, 2018	Pending
Pat. No. CN 112585887	China	May 12, 2023	July 12, 2018	In force – expires 7/10/39
App. No. 202310495839.6	China	April 28, 2023	July 12, 2018	Pending
App. No. 19 834 930.0-1205	European PO	February 12, 2021	July 12, 2018	Pending
App. No. 62021042678.4	Hong Kong	November 18, 2021	July 12, 2018	Pending
App. No. 42024085540.3	Hong Kong	January 17, 2024	July 12, 2018	Pending
Pat. No. 531182	India	March 31, 2024	July 12, 2018	In force – expires 7/10/39
App. No. 202328044913	India	July 4, 2023	July 12, 2018	Pending
App. No. 279844	Israel	December 29, 2020	July 12, 2018	Pending
App. No. 2021-500113	Japan	January 4, 2021	July 12, 2018	Pending
Pat. No. 10-2705558	South Korea	September 5, 2024	July 12, 2018	In force – expires 7/10/39
Pat. No. 412619	Mexico	April 29, 2024	July 12, 2018	In force – expires 7/10/39
App. No. MX/a/2024/005078	Mexico	April 25, 2024	July 12, 2018	Pending
Pat. No. NG/PT/C/2021/5140	Nigeria	October 10, 2024	July 12, 2018	In force – expires 7/10/39

FAMILY F: "DATA TRANSMISSION DIVERSITY"				
Pat. No. 11,870,543	United States	January 9, 2024	May 18, 2020	In force – expires 10/2/41
App. No. 18/401,534	United States	December 31, 2023	May 18, 2020	Pending (Pub. No. US2024/0305363)

FAMILY G: "AERODYNAMIC LEO AND VLEO SATELLITES"				
Pat. No. 11,870,543	United States	September 9, 2025	July 10, 2020	In force - expires 7/6/41
FOREIGN PATENTS & APPLICATIONS				
App. No. BR112022026213-2	Brazil	December 21, 2022	July 10, 2020	Pending
App. No. 202317007372	India	February 6, 2023	July 10, 2020	Pending



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FAMILY H: "CONNECTING MOVING USERS VIA SATELLITES"				
Pat. No. 12,301,331	United States	May 13, 2025	December 2, 2020	In force - expires 8/30/43
App. No. 19/200,778	United States	May 7, 2025	December 2, 2020	Pending
FAMILY I: "WORLDWIDE COMMUNICATIONS USING DRONES AND SATELLITES"				
Pat. No. 11,968,023	United States	April 23, 2024	December 2, 2020	In force – expires 12/1/41
Pat. No. 12,119,919	United States	October 15, 2024	December 2, 2020	In force – expires 12/1/41
Pat. No. 12,081,310	United States	September 3, 2024	December 2, 2020	In force – expires 12/1/41
FAMILY J: "DRONE AND BALLOON NODES FOR MESH COMMUNICATIONS SYSTEMS"				
App. No. 18/864,914	United States	November 12, 2024	May 24, 2022	Pending (Pub. No. WO 2023/229923)
FOREIGN PATENTS & APPLICATIONS				
App. No. BR112024024323-0	Brazil	November 22, 2024	May 24, 2022	Pending
App. No. 3257362	Canada	November 22, 2024	May 24, 2024	Pending
App. No. 202380051357X	China	December 31, 2024	May 24, 2022	Pending
App. No. 2024-569031	Japan	November 20, 2024	May 24, 2024	Pending
App. No. MX/a/2024/014443	Mexico	November 21, 2024	May 24, 2022	Pending
FAMILY K: "MULTI-LEVEL DATA ENCRYPTION"				
App. No. 19/486,929	United States	November 23, 2025	June 1, 2023	Pending