MMC Castings		
Country	Status	Number
Algeria	Patented	11620
Algeria	Patented	12927
Australia	Patented	2009294779
Australia	Patented	2009294780
Australia	Patented	2009294782
Australia	Patented	2009294781
Australia	Patented	2021243493
Australia	Pending	2022350759
Australia	Patented	2015289117
Australia	Patented	2021278197
Austria	Patented	2326738
Austria	Patented	2323770
Austria	Patented	2334836
Austria	Patented	3938127
Belgium	Patented	2329052
Belgium	Patented	2326738
Belgium	Patented	2323770
Belgium	Patented	2334836
Belgium	Patented	3938127
Belgium	Patented	3169645
Brazil	Patented	PI0913715-7
Brazil	Patented	PI0913557-0
Brazil	Patented	PI0913717-3
Brazil	Patented	PI0913538-3
Brazil	Patented	112021023975-8
Brazil	Published	1120240044300
Brazil	Patented	11 2017 000716 9
Brazil	Published	1120220236492
Canada	Patented	2,743,343
Canada	Patented	2743744
Canada	Patented	2,735,877
Canada	Patented	2,735,912
Canada	Patented	3136701
Canada	Pending	3229427
Canada	Patented	2,955,298
Canada	Pending	3184352
Chile	Patented	51.203
Chile	Patented	51.018
Chile	Patented	51.019
Chile	Patented	51112
Chile	Patented	67.679
Chile	Patented	73.756
Chile	Patented	60.556
Chile	Patented	73.165

MMC Castings		
Country	Status	Number
China	Patented	ZL200980136496.2
China	Patented	ZL 200980136486.9
China	Patented	ZL200980137114.8
China	Patented	ZL200980137113.3
China	Patented	ZL202310632463.9
China	Patented	ZL202310632434.2
China	Patented	202180002908.4
China	Published	202280062621.5
China	Patented	ZL201580049935.1
China	Patented	ZL202180038712.0
Colombia	Patented	45102
Colombia	Published	NC2024/0004232
Czechia	Patented	2329052
Czechia	Patented	2323770
Czechia	Patented	2334836
Czechia	Patented	3938127
Denmark	Patented	2329052
Denmark	Patented	2326738
Denmark	Patented	2323770
Denmark	Patented	2334836
Denmark	Patented	3938127
Egypt	Patented	26800
Egypt	Patented	26641
Egypt	Pending	PCT 1657/2021
Egypt	Pending	PCT 378/2024
Europe	Published	23159760.0
Europe	Published	23159758.4
Europe	Published	22772919.1
Europe	Published	21713432.9
Finland	Patented	2326738
Finland	Patented	2334836
Finland	Patented	3938127
France	Patented	2329052
France	Patented	2326738
France	Patented	2323770
France	Patented	2334836
France	Patented	3938127
France	Patented	3169645
Germany	Patented	2329052
Germany	Patented	2326738
Germany	Patented	2323770
Germany	Patented	2334836
Germany	Patented	3938127
Germany	Patented	3169645

MMC Castings		
Country	Status	Number
Greece	Patented	2326738
Greece	Patented	2334836
Hong Kong	Patented	1157824
India	Patented	327307
India	Patented	328105
India	Patented	313372
India	Patented	305851
India	Patented	536817
India	Pending	202417013001
India	Patented	462242
India	Pending	202217066657
Indonesia	Patented	IDP000104487
Indonesia	Patented	P000093538
Indonesia	Published	P00202402373
Indonesia	Patented	000073866
Indonesia	Patented	IDP000106436
Ireland	Patented	2326738
Ireland	Patented	2334836
Ireland	Patented	3938127
Italy	Patented	2326738
Italy	Patented	2323770
Italy	Patented	2334836
Italy	Patented	3938127
Italy	Patented	3169645
Japan	Patented	5,503,653
Japan	Patented	5,484,468
Japan	Patented	7465319
Japan	Patented	7177290
Japan	Pending	2024-518474
Japan	Patented	6764855
Malaysia	Patented	MY-150582-A
Malaysia	Patented	MY-150574-A
Malaysia	Patented	MY-156696-A
Malaysia	Patented	195381
Malaysia	Pending	PI 2024001006
Malaysia	Patented	184735A
Mexico	Patented	315470
Mexico	Patented	313821
Mexico	Patented	315243
Mexico	Patented	300599
Mexico	Published	MX/A/2025/008497
Mexico	Published	MX/A/2025/008498
Mexico	Patented	427947
Mexico	Published	MX/a/2024/003686

MMC Castings		
Country	**Status**	**Number**
Mexico	Patented	395888
Morocco	Patented	3938127
Netherlands	Patented	2329052
Netherlands	Patented	2334836
Netherlands	Patented	3938127
Nigeria	Pending	NG/PT/PCT/2021/5570
Nigeria	Pending	F/PT/PCT/2024/11510
Peru	Patented	13757
Peru	Published	268-2024
Peru	Published	2629-2022
Philippines	Published	1-2021-552659
Philippines	Published	1-2024-550469
Poland	Patented	2329052
Poland	Patented	2326738
Poland	Patented	2323770
Poland	Patented	2334836
Poland	Patented	3938127
Poland	Patented	3169645
Portugal	Patented	2329052
Portugal	Patented	2326738
Portugal	Patented	2323770
Portugal	Patented	2334836
Portugal	Patented	3938127
Portugal	Patented	3169645
Romania	Patented	2329052
Romania	Patented	2326738
Romania	Patented	2323770
Romania	Patented	2334836
Russian Federation	Patented	2779482
Russian Federation	Patented	2853502
Saudi Arabia	Patented	13532
Saudi Arabia	Pending	1120241432
Slovakia	Patented	2329052
Slovakia	Patented	2334836
Slovakia	Patented	3938127
South Africa	Patented	2011/01623
South Africa	Patented	2011/01790
South Africa	Patented	2011/01792
South Africa	Patented	2011/01791
South Africa	Patented	2021/07498
South Africa	Patented	2024/01719
South Africa	Patented	2017/00624
South Africa	Patented	2022/12080
South Korea	Patented	1633141

MMC Castings		
Country	**Status**	**Number**
South Korea	Patented	1621996
South Korea	Patented	1614180
South Korea	Patented	10-2723088
South Korea	Pending	10-2024-7012634
South Korea	Patented	10-2464943
Spain	Patented	2329052
Spain	Patented	2326738
Spain	Patented	2323770
Spain	Patented	2334836
Spain	Patented	3938127
Spain	Patented	3169645
Sri Lanka	Patented	21970
Sri Lanka	Pending	23011
Sweden	Patented	2329052
Sweden	Patented	2326738
Sweden	Patented	2323770
Sweden	Patented	2334836
Sweden	Patented	3938127
Switzerland	Patented	2326738
Switzerland	Patented	2323770
Switzerland	Patented	2334836
Switzerland	Patented	3938127
Thailand	Patented	123492
Thailand	Published	2401001874
Thailand	Patented	94758
Tunisia	Patented	3938127
Türkiye	Patented	2329052
Türkiye	Patented	2326738
Türkiye	Patented	2323770
Türkiye	Patented	2334836
Türkiye	Patented	3938127
Türkiye	Patented	3169645
Ukraine	Patented	127581
Ukraine	Pending	a202400856
United Kingdom	Patented	2326738
United Kingdom	Patented	2323770
United Kingdom	Patented	2334836
United Kingdom	Patented	3938127
United Kingdom	Patented	3169645
United States	Patented	8,646,192
United States	Patented	8,602,340
United States	Patented	8,651,407
United States	Patented	8999518
United States	Published	17/491,345

MMC Castings		
Country	**Status**	**Number**
United States	Published	18/999,606
United States	Published	18/690,951
United States	Patented	11465942
United States	Published	18/000,073
Viet Nam	Patented	49144
Viet Nam	Pending	1-2024-02534