

Advance one		
Country	Status	Number
Algeria	Patented	11620
Algeria	Patented	12927
Australia	Patented	2021243493
Australia	Pending	2022350759
Australia	Patented	2015289117
Austria	Patented	3938127
Belgium	Patented	3938127
Belgium	Patented	3169645
Brazil	Patented	112021023975-8
Brazil	Published	1120240044300
Brazil	Patented	11 2017 000716 9
Canada	Patented	3136701
Canada	Pending	3229427
Canada	Patented	2,955,298
Chile	Patented	67.679
Chile	Published	514-2024
Chile	Patented	60.556
China	Patented	202180002908.4
China	Published	202310632463.9
China	Published	202310632434.2
China	Published	202280062621.5
China	Patented	ZL201580049935.1
Colombia	Published	NC2021/0013840
Colombia	Published	NC2024/0004232
Czechia	Patented	3938127
Denmark	Patented	3938127
Egypt	Pending	PCT 1657/2021
Egypt	Pending	PCT 378/2024
Europe	Published	23159758.4
Europe	Published	23159760.0
Europe	Published	22772919.1
Finland	Patented	3938127
France	Patented	3938127
France	Patented	3169645
Germany	Patented	3938127
Germany	Patented	3169645
India	Patented	536817
India	Pending	202417013001
India	Patented	462242
Indonesia	Patented	P000093538
Indonesia	Published	P00202400941
Indonesia	Published	P00202402373
Indonesia	Patented	000073866
Ireland	Patented	3938127
Italy	Patented	3938127
Italy	Patented	3169645
Japan	Patented	7177290

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Country	Status	Number
Japan	Patented	7465319
Japan	Pending	2024-518474
Japan	Patented	6764855
Malaysia	Patented	195381
Malaysia	Pending	PI 2024001006
Malaysia	Patented	184735A
Mexico	Patented	427947
Mexico	Published	MX/A/2025/008497
Mexico	Published	MX/A/2025/008498
Mexico	Published	MX/a/2024/003686
Mexico	Patented	395888
Morocco	Patented	3938127
Netherlands	Patented	3938127
Nigeria	Pending	NG/PT/PCT/2021/5570
Nigeria	Pending	F/PT/PCT/2024/11510
Peru	Patented	1729-2021
Peru	Published	268-2024
Philippines	Published	1-2021-552659
Philippines	Pending	1-2024-550469
Poland	Patented	3938127
Poland	Patented	3169645
Portugal	Patented	3938127
Portugal	Patented	3169645
Russian Federation	Patented	2779482
Russian Federation	Patented	2853502
Saudi Arabia	Patented	13532
Saudi Arabia	Pending	1120241432
Slovakia	Patented	3938127
South Africa	Patented	2021/07498
South Africa	Patented	2024/01719
South Africa	Patented	2017/00624
South Korea	Patented	10-2723088
South Korea	Pending	10-2024-7012634
South Korea	Patented	10-2464943
Spain	Patented	3938127
Spain	Patented	3169645
Sri Lanka	Patented	21970
Sri Lanka	Pending	23011
Sweden	Patented	3938127
Switzerland	Patented	3938127
Thailand	Published	2101006616
Thailand	Published	2401001874
Thailand	Patented	94758
Tunisia	Patented	3938127
Türkiye	Patented	3938127
Türkiye	Patented	3169645
Ukraine	Patented	127581

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Country	Status	Number
Ukraine	Pending	a202400856
United Kingdom	Patented	3938127
United Kingdom	Patented	3169645
United States	Published	17/491,345
United States	Published	18/999,606
United States	Published	18/690,951
United States	Patented	11465942
Viet Nam	Patented	49144
Viet Nam	Pending	1-2024-02534

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