

## U.S. PATENT NUMBER

As of May 21, 2024

6,949,900	7,363,046	7,593,456	7,863,989	8,010,819
7,058,372	7,370,214	7,593,459	7,870,468	8,013,659
7,098,732	7,373,533	7,622,963	7,873,854	8,023,556
7,098,753	7,375,411	7,627,302	7,873,856	8,023,557
7,102,865	7,376,396	7,634,000	7,876,124	8,027,394
7,113,011	7,376,399	7,634,028	7,876,135	8,041,975
7,119,527	7,382,181	7,640,455	7,876,167	8,049,475
7,142,835	7,386,074	7,649,875	7,882,282	8,051,222
7,177,617	7,394,329	7,650,119	7,904,035	8,064,861
7,183,864	7,412,000	7,656,970	7,904,040	8,072,236
7,187,193	7,417,877	7,667,542	7,907,555	8,073,085
7,218,896	7,421,251	7,671,688	7,908,500	8,076,754
7,230,504	7,426,376	7,676,210	7,913,012	8,077,591
7,250,825	7,428,159	7,679,162	7,928,878	8,081,700
7,251,112	7,441,131	7,680,041	7,932,577	8,086,211
7,254,169	7,450,911	7,714,674	7,936,237	8,089,874
7,272,373	7,464,201	7,729,675	7,955,886	8,090,035
7,272,374	7,471,940	7,737,673	7,956,517	8,090,062
7,280,001	7,482,666	7,746,262	7,956,787	8,107,518
7,281,176	7,486,386	7,747,228	7,957,273	8,111,204
7,283,503	7,493,505	7,755,448	7,962,113	8,111,535
7,286,513	7,498,787	7,764,131	7,962,773	8,112,576
7,289,477	7,518,350	7,764,134	7,965,782	8,126,420
7,295,144	7,528,590	7,772,934	7,969,251	8,129,973
7,296,100	7,529,865	7,777,585	7,973,563	8,136,409
7,298,772	7,536,164	7,782,813	7,974,596	8,139,699
7,298,799	7,536,570	7,787,827	7,977,816	8,145,170
7,321,225	7,536,608	7,800,415	7,979,048	8,145,172
7,324,561	7,548,123	7,821,251	7,986,738	8,149,965
7,325,167	7,548,738	7,821,440	7,995,981	8,149,966
7,327,700	7,554,134	7,830,216	7,999,523	8,150,346
7,332,975	7,561,865	7,835,706	8,000,288	8,151,029
7,343,504	7,580,481	7,844,007	8,005,179	8,151,155
7,355,476	7,587,184	7,855,445	8,007,167	8,154,358
7,362,826	7,593,378	8,564,256	8,008,949	8,155,220

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8,160,190	8,374,296	8,564,256	8,723,149	8,904,076
8,165,251	8,378,724	8,569,679	8,724,532	8,908,750
8,174,415	8,384,031	8,582,431	8,725,103	8,912,496
8,179,163	8,384,559	8,587,398	8,729,925	8,912,785
8,188,804	8,385,867	8,593,119	8,730,404	8,913,051
8,188,926	8,396,063	8,604,884	8,731,042	8,914,563
8,193,822	8,402,823	8,615,213	8,736,348	8,914,564
8,194,569	8,405,030	8,618,844	8,736,476	8,914,624
8,203,385	8,410,830	8,618,848	8,750,819	8,918,067
8,207,766	8,412,961	8,620,237	8,762,586	8,922,418
8,213,192	8,428,534	8,626,178	8,774,328	8,930,591
8,219,705	8,446,996	8,626,251	8,781,428	8,937,968
8,223,783	8,447,799	8,629,723	8,803,096	8,937,971
8,223,820	8,450,992	8,629,794	8,803,360	8,946,856
8,223,906	8,452,830	8,630,072	8,816,752	8,946,868
8,224,279	8,456,228	8,633,743	8,818,309	8,949,302
8,242,844	8,456,242	8,633,844	8,825,921	8,952,751
8,245,063	8,462,903	8,634,502	8,829,945	8,952,839
8,253,613	8,463,215	8,643,391	8,829,996	8,954,632
8,259,786	8,463,223	8,643,419	8,831,521	8,959,274
8,260,236	8,471,404	8,648,664	8,836,392	8,959,382
8,261,165	8,471,629	8,649,134	8,837,611	8,966,233
8,264,255	8,487,697	8,654,484	8,837,646	8,970,287
8,264,387	8,489,058	8,666,349	8,848,110	8,971,210
8,265,584	8,493,146	8,669,892	8,848,170	8,975,970
8,274,466	8,494,470	8,671,286	8,854,130	8,983,417
8,280,319	8,508,298	8,681,026	8,860,514	8,983,419
8,300,652	8,509,790	8,688,052	8,872,554	8,988,008
8,306,491	8,513,989	8,692,599	8,874,060	8,989,330
8,326,252	8,515,373	8,698,471	8,878,570	8,995,940
8,332,451	8,515,416	8,699,630	8,879,527	9,000,833
8,346,202	8,520,347	8,704,152	8,880,749	9,001,653
8,357,958	8,521,099	8,706,069	8,885,106	9,001,753
8,358,285	8,531,325	8,712,344	8,885,482	9,002,306
8,369,906	8,542,144	8,717,005	8,903,332	9,007,119

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9,007,969	9,178,549	9,438,165	9,599,643	9,742,209
9,013,975	9,197,510	9,438,290	9,608,681	9,742,397
9,018,715	9,209,838	9,444,406	9,609,464	9,742,412
9,032,129	9,209,912	9,473,150	9,612,893	9,742,423
9,036,740	9,219,512	9,477,292	9,614,528	9,746,505
9,038,480	9,220,050	9,478,859	9,621,170	9,748,963
9,041,452	9,231,579	9,479,199	9,625,925	9,780,757
9,041,569	9,236,867	9,479,892	9,634,678	9,787,310
9,041,584	9,240,794	9,484,925	9,634,861	9,793,240
9,042,499	9,240,795	9,489,000	9,641,186	9,798,686
9,048,777	9,246,494	9,490,865	9,647,623	9,800,233
9,048,821	9,250,137	9,491,394	9,647,670	9,800,281
9,054,672	9,251,107	9,496,906	9,647,824	9,804,573
9,058,761	9,252,891	9,502,399	9,658,975	9,806,521
9,077,652	9,256,558	9,503,113	9,668,209	9,817,636
9,083,354	9,258,596	9,503,841	9,680,420	9,817,665
9,088,948	9,264,084	9,509,278	9,680,608	9,819,524
9,094,634	9,264,754	9,510,289	9,689,724	9,823,687
9,099,922	9,274,140	9,515,671	9,697,162	9,831,836
9,099,994	9,319,027	9,520,646	9,698,674	9,831,889
9,106,265	9,324,701	9,521,579	9,698,767	9,836,071
9,106,867	9,332,376	9,525,440	9,698,807	9,841,804
9,124,334	9,342,084	9,531,284	9,703,899	9,846,205
9,136,824	9,343,971	9,531,394	9,705,514	9,866,215
9,154,084	9,350,412	9,553,565	9,710,031	9,866,238
9,157,937	9,356,606	9,553,572	9,712,176	9,874,887
9,160,166	9,369,146	9,564,915	9,712,261	9,886,412
9,160,465	9,378,782	9,565,065	9,713,090	9,888,096
9,164,936	9,379,098	9,570,908	9,720,875	9,923,710
9,166,576	9,379,676	9,572,109	9,726,696	9,935,649
9,166,812	9,385,747	9,576,679	9,729,162	9,945,690
9,172,344	9,407,276	9,582,016	9,735,145	9,946,323
9,172,361	9,414,217	9,588,497	9,735,748	9,948,313
9,176,558	9,426,603	9,590,630	9,736,709	9,954,692
9,178,451	9,429,468	9,590,644	9,736,777	9,958,888

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9,960,756	10,090,674	10,278,200	10,447,822	10,667,285
9,964,986	10,090,838	10,289,840	10,454,268	10,673,383
9,966,781	10,101,371	10,291,755	10,454,420	10,673,559
9,966,900	10,103,759	10,292,104	10,461,701	10,673,688
9,966,960	10,110,177	10,296,025	10,461,787	10,678,674
9,966,965	10,120,005	10,296,026	10,461,920	10,681,187
9,967,722	10,128,857	10,305,676	10,461,963	10,693,475
9,973,285	10,139,896	10,310,528	10,468,983	10,698,001
9,978,887	10,141,971	10,312,955	10,469,075	10,700,901
9,979,282	10,153,084	10,317,508	10,469,112	10,707,871
9,979,404	10,154,394	10,318,357	10,469,295	10,708,780
9,980,277	10,158,354	10,326,537	10,488,269	10,712,390
9,983,643	10,164,593	10,331,592	10,491,157	10,715,156
9,984,009	10,165,516	10,333,213	10,492,050	10,720,948
9,989,927	10,169,256	10,333,750	10,497,455	10,727,787
9,998,277	10,172,105	10,340,894	10,498,352	10,734,894
10,008,981	10,175,271	10,342,028	10,514,747	10,734,949
10,020,815	10,175,707	10,348,283	10,515,708	10,734,977
10,033,364	10,177,781	10,355,477	10,520,547	10,735,913
10,033,421	10,180,839	10,355,642	10,523,251	10,739,845
10,041,981	10,181,868	10,356,092	10,536,115	10,740,498
10,044,101	10,193,545	10,360,104	10,542,585	10,742,185
10,044,383	10,200,202	10,362,464	10,551,411	10,742,199
10,056,899	10,205,386	10,362,509	10,566,930	10,742,242
10,061,740	10,218,387	10,367,462	10,574,185	10,742,429
10,063,048	10,222,421	10,374,300	10,579,087	10,742,445
10,063,084	10,230,345	10,389,364	10,587,295	10,754,370
10,063,203	10,249,611	10,389,482	10,594,035	10,754,579
10,067,554	10,254,176	10,396,910	10,595,785	10,756,739
10,068,046	10,256,199	10,404,446	10,601,369	10,757,652
10,077,994	10,256,854	10,411,583	10,620,661	10,763,781
10,078,600	10,263,523	10,423,174	10,637,673	10,763,869
10,078,616	10,270,272	10,425,895	10,637,681	10,769,280
10,084,376	10,270,457	10,437,659	10,658,999	10,771,942
10,084,469	10,277,519	10,440,570	10,659,045	10,784,573

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10,785,016	10,969,416	11,144,104	11,363,529	11,552,606
10,788,376	10,972,077	11,147,018	11,366,898	11,552,666
10,805,884	10,972,118	11,177,844	11,368,203	11,558,232
10,812,302	10,972,120	11,177,993	11,368,359	11,579,776
10,812,350	10,992,452	11,184,272	11,374,555	11,599,684
10,812,993	10,996,281	11,188,656	11,374,600	11,601,133
10,817,200	11,012,084	11,190,147	11,375,463	11,606,106
10,820,270	11,012,446	11,196,385	11,381,267	11,606,240
10,823,693	11,012,898	11,200,930	11,387,857	11,611,152
10,826,501	11,016,708	11,206,122	11,392,166	11,611,360
10,826,640	11,025,231	11,218,178	11,395,188	11,611,425
10,826,647	11,029,716	11,226,371	11,402,860	11,611,907
10,826,677	11,031,778	11,227,614	11,403,496	11,626,366
10,827,333	11,032,766	11,239,799	11,405,028	11,627,531
10,827,451	11,032,769	11,245,406	11,405,136	11,632,140
10,831,159	11,036,268	11,251,900	11,415,657	11,632,733
10,833,400	11,038,521	11,252,661	11,431,359	11,635,483
10,833,711	11,044,028	11,262,430	11,438,089	11,635,998
10,833,795	11,044,631	11,262,786	11,438,200	11,638,116
10,833,885	11,050,462	11,264,111	11,444,627	11,646,705
10,840,232	11,057,834	11,277,895	11,456,530	11,646,722
10,848,165	11,061,432	11,310,063	11,460,501	11,646,735
10,859,689	11,061,452	11,313,909	11,463,064	11,646,754
10,860,744	11,075,602	11,316,482	11,477,653	11,646,814
10,863,441	11,087,030	11,316,522	11,483,168	11,652,667
10,868,505	11,096,111	11,320,482	11,486,957	11,663,366
10,893,477	11,106,235	11,323,029	11,502,883	11,665,008
10,903,838	11,112,847	11,323,239	11,516,057	11,683,012
10,911,129	11,112,849	11,328,755	11,523,340	11,686,834
10,911,419	11,125,848	11,342,926	11,528,179	11,689,349
10,931,300	11,129,008	11,349,448	11,529,742	11,699,974
10,944,388	11,129,098	11,350,275	11,537,190	11,700,531
10,944,617	11,140,014	11,353,903	11,539,536	11,704,443
10,951,190	11,140,161	11,356,157	11,543,843	11,705,861
10,951,216	11,143,735	11,356,158	11,545,985	11,721,902

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11,736,322	11,777,548	11,894,622	D802564
11,736,366	11,777,637	11,894,623	D856,984
11,736,920	11,784,562	11,894,826	RE48,275
11,737,038	11,784,671	11,894,864	RE48,735
11,742,843	11,789,708	11,901,924	
11,743,852	11,790,044	11,906,642	
11,749,893	11,802,894	11,909,430	
11,750,167	11,802,930	11,916,514	
11,750,178	11,803,203	11,916,679	
11,750,360	11,804,811	11,953,936	
11,755,096	11,804,862	11,960,881	
11,757,188	11,805,414	11,962,325	
11,757,189	11,811,442	11,963,037	
11757190	11,811,446	11,973,381	
11,764,473	11,817,868	11,973,509	
11,764,749	11,848,806	11,978,962	
11,764,759	11,862,872	11,979,846	
11,768,794	11,863,192	11,982,710	
11,769,564	11,878,432	11,984,866	
11,769,949	11,886,621	11/735,177	
11,770,287	11,888,540	D623,636	
11,770,678	11,894,621	D798,845	