

Claiborne Patent Law Services

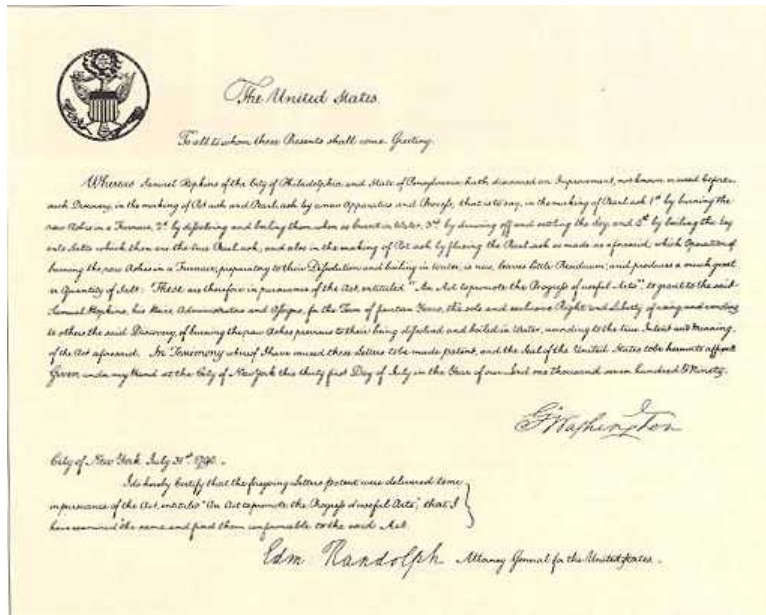
First U.S. Patent

On July 31, 1790, Samuel Hopkins of Pittsford, Vermont received the first numbered U.S. patent for an improvement "in the making [of] Pot ash and Pearl ash by a new Apparatus and Process."

In the 18th century, there was a large demand for potash for making potash soap, used in gunpowder manufacture but principally in the wool industry for soap to wash wool before weaving. Potash in those days was derived from hardwood ashes. As the hardwood forests of the American east coast were cleared, the need arose for obtaining greater yields of potash from diminishing supplies of wood ashes.

Hopkins' method entailed a second firing of the wood ash, resulting in higher formation of carbonate and consequent greater yields of potash. His patent is signed by George Washington and was in effect for fourteen years from the date of issue.

The first numbered patent under the present system was U.S. Patent Number 1 to John Ruggles for a Locomotive Steam Engine in 1836. U.S. Patent Number 6,500,000 (to Alan Segal for a Handpiece for a Dental Syringe Assembly) issued on December 31, 2002.



July 2011

Monthly Planner

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3 1886 - Karl Benz drives the first automobile in the world in Mannheim, Germany	4 1883 - Rube Goldberg born Independence Day	5	6	7 1936 - patents issued for the Phillips-head screw and screwdriver to Henry F. Phillips (Nos. 2,046,343, 2,046,837 -40)	8	9																																																																																																		
10 1856 - Nikola Tesla born in Croatia	11	12 1895 - Bukminster Fuller born	13	14	15	16																																																																																																		
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24	25 1865 - Method of manufacturing iron and steel patented by Henry Bessemer (Bessemer furnace. No. 49,051)	26	27	28	29	30 1968 - "Airless water pressure system" patented by Candido Jacuzzi (No. 3.394.733)																																																																																																		
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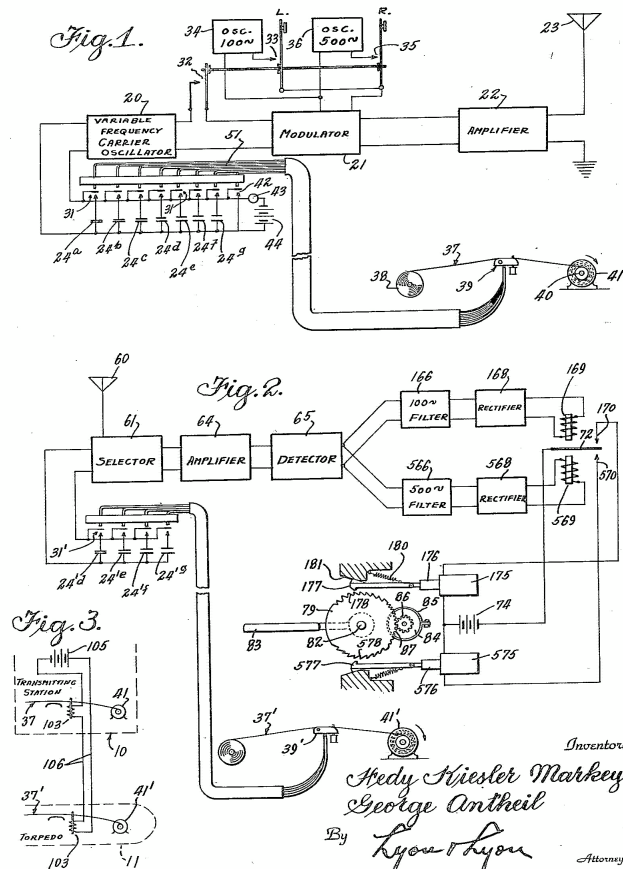
Claiborne Patent Law Services

Aug. 11, 1942.

H. K. MARKEY ET AL
SECRET COMMUNICATION SYSTEM
Filed June 10, 1941

2,292,387

2 Sheets-Sheet 1



Hedy Lamar's Patent

On the eve of the Second World War, glamorous actress Hedy Keisler Markey (Hedy Lamar) and avant garde composer George Antheil invented a form of secure wireless communication, frequency hopping spread spectrum (FHSS).

The patent taught the use of synchronised piano rolls at transmitter and receiver to shift the frequency of a broadcast radio signal, the arbitrary shifts from one frequency to another preventing jamming or eavesdropping. The basic application was to control a torpedo (even though a piano roll in a torpedo does seem rather far-fetched), so the breaks as the system shifted from one frequency to another were not important.

While never adopted by the military during the life of the patent, today, fifty years after its invention, FHSS has become an important wireless communications protocol, used especially in local area wireless networks, where the data signal is modulated with a narrowband carrier signal that "hops" in a random but predictable sequence from frequency to frequency as a function of time over a wide band of frequencies.

August 2011

Monthly Planner

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	1	2	3	4 1693 - Champagne invented by Dom Perignon	5	6																																																																																																										
7	8 1854 - metal bullet cartridges patented by Smith & Wesson	9 1859, Nathan Ames, of Saugus, MA, patented the escalator	10 1889, Dan Rylands patented the screw cap	11	12 1851 - Isaac M. Singer of New York City granted a patent for the first sewing machine with a rocking treadle	13																																																																																																										
14 1888, patent issued to Oliver B. Shallenberger for the electric meter.	15 1835, a U.S. patent was issued for a rotary washing machine to C. H. Farnham (No. 8993X).	16 1898 - loop-de-loop Roller Coaster patented by Edwin Prescott	17	18	19 1856, Gail Borden patented his process for condensed milk	20 1930, Philo Farnsworth patented a television system (No. 1,773,980).																																																																																																										
21 1888, William Seward Burroughs received a patent on his adding machine (No. 388.118).	22 1939 - patent for aerosol spray can issued to Julius Seth Kahn (No. 2.170.531).	23	24	25	26 1884 - first U.S. patent for the Linotype typesetting machine issued to Ottmar Mergenthaler (No. 304,272)	27																																																																																																										
28 1845 - first issue of the Scientific American published	29 1893 - Zipper patented by Whitcomb L. Judson (No. 504.038)	30	31 1909 - Benjamin Shibe receives a patent on the cork center baseball (No. 932.911)	<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="7">Jul 2005</th> </tr> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>2</td> </tr> <tr> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> </tr> <tr> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> </tr> <tr> <td>17</td> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> </tr> <tr> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> </tr> <tr> <td>31</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Jul 2005							S	M	T	W	T	F	S						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="7">Sep 2005</th> </tr> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> </tr> <tr> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> <td></td> </tr> </tbody> </table>		Sep 2005							S	M	T	W	T	F	S					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
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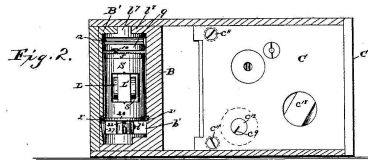
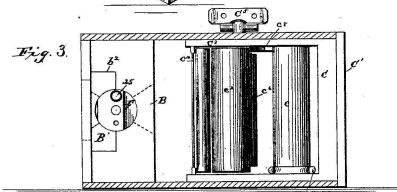
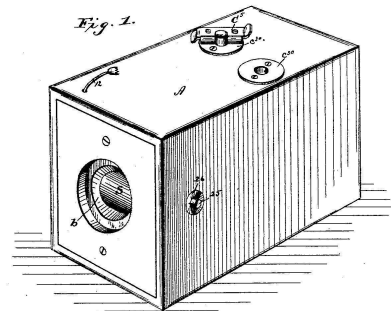
(No Model.)

G. EASTMAN.
CAMERA.

3 Sheets—Sheet 1.

No. 388,850.

Patented Sept. 4, 1888.



Witnesses.
Geo. B. Burr.
Affiant

Inventor.
George Eastman.
By *Chas. & Chas.*
his Attorneys.

H. PETERS, Photo-Lithographer, Washington, D.C.

Eastman Kodak Box Camera

When George Eastman began experimenting with the technology in the 1870s, just practicing photography required large, heavy equipment, chemicals and processing tanks for preparing and developing the wet emulsion heavy glass photographic plates of the time. With an eye to simplifying photography for the amateur, Eastman first developed a dry emulsion process for preparing photographic plates in advance of use.

With further experiments to produce a lighter and more flexible support than glass, Eastman developed a form of photographic film. A layer of paper was rolled with a layer of plain, soluble gelatin, and then with a layer of insoluble light-sensitive gelatin. After exposure and development, the gelatin bearing the image was stripped from the paper, transferred to a sheet of clear gelatin, and varnished with collodion - a cellulose solution that forms a tough, flexible film.

Along with the film, Eastman developed the Kodak box camera for roll film photography. This simple and lightweight camera, forerunner of the monumentally successful Kodak Brownie camera, made photography accessible for the average person for the first time.

September 2011

Monthly Planner

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4	5 Frank Jewitt, first president of Bell Labs, born 1879 Labor Day	6	7	8	9	10 1912 "Pleasure-Railway" (roller-coaster) patented by John A. Miller (No. 1.037.958)																																																																																											
11	12	13	14	15 1857 - first workable typesetting machine patented by Timothy Alden (No. 18.175)	16	17																																																																																											
18	19	20 1938 - Nylon patented by Wallace H. Carothers (No. 2.130.948)	21	22 Autumn begins	23	24																																																																																											
25	26 1871 - Portland cement patented by David Oliver Saylor (No. 119.413)	27 1892 - Book matches patented by Joshua Pusey (No. 483.165)	28	29	30 1902 - Rayon patented by William H. Walker, Arthur D. Little and Harry S. Mork (No. 709,922)																																																																																												