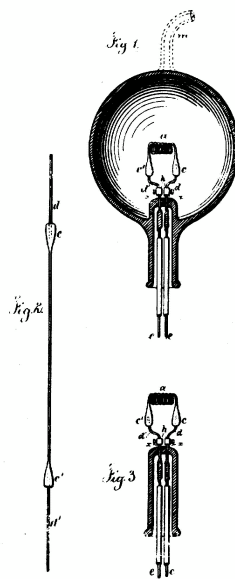


# Claiborne Patent Law Services

T. A. EDISON.  
Electric-Lamp.

No. 223,898.

Patented Jan. 27, 1880.



Witnesses  
Chas. H. Smith  
Geo. P. Mackay

Inventor  
Thomas A. Edison  
for Lemuel W. Serrell  
att.

## Edison's Electric Light

In the summer of 1878, while on vacation, Thomas Edison became fired with the idea of creating an electric light. Others, including English scientists Humphry Davy and Joseph Wilson Swan had created lighting from electricity earlier, but no one had developed practical and economical electric lighting for the home.

Returning to his laboratory in Menlo park, New Jersey, Edison worked himself and his men up to 20 hours a day for weeks on end to develop the invention. After one and a half years of work, success was achieved when an incandescent lamp with a filament of carbonized sewing thread burned for thirteen and a half hours on October 19, 1879.

Edison's great achievement in electric lighting extended far beyond the invention of the practical light bulb, encompassing the development of infrastructure components to support electrification for home lighting - the parallel circuit, a durable light bulb, an improved dynamo, the underground conductor network, the devices for maintaining constant voltage, safety fuses and insulating materials, and light sockets with on-off switches.

# January 2011

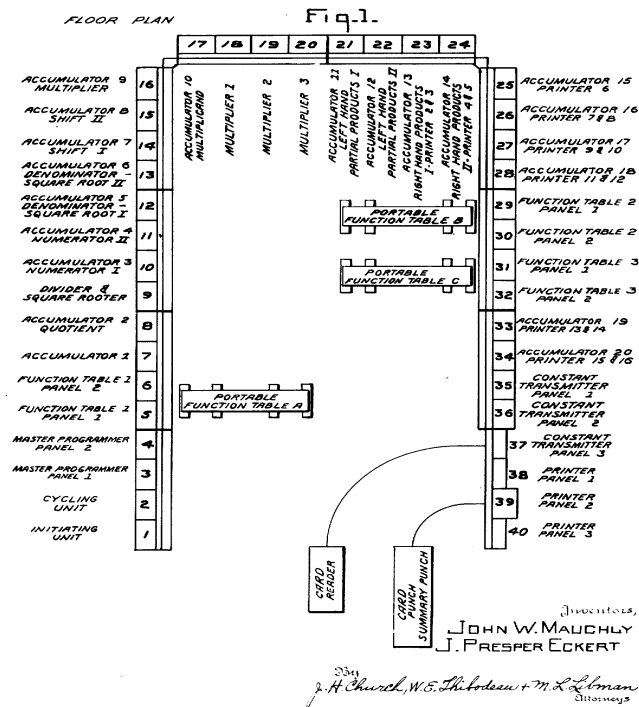
## Monthly Planner

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<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>  <small>1889 - Dr. Herman Hollerith receives three US patents for a tabulating machine (No. 395,781, -2, -3)</small>																																																																																				
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>  <small>1907 - three-element vacuum tube patented by Lee de Forest (No. 841.387).</small>																																																																																				
<b>16</b>	<b>17</b>  <small>1871 - patent was issued for an "endless wire rope way" - the cable-car of San Francisco (No.110,971)</small>  <span style="color: red;">Martin Luther King, Jr.</span>	<b>18</b>	<b>19</b>  <small>1736 - James Watt born</small>	<b>20</b>	<b>21</b>	<b>22</b>																																																																																				
<b>23</b>	<b>24</b>  <small>1922 - Eskimo Pie "confection" patented by Christian K. Nelson (No. 1.404.539).</small>	<b>25</b>	<b>26</b>	<b>27</b>  <small>1880 - Thomas Edison receives a patent for his electric incandescent lamp (No. 223.898)</small>	<b>28</b>  <small>1886 - Karl Benz receives German patent (DRP. No. 37435) for an internal combustion engine powered automobile.</small>	<b>29</b>																																																																																				
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# Claiborne Patent Law Services

## ENIAC

Feb. 4, 1964 J. P. ECKERT, JR., ETAL 3,120,606  
 ELECTRONIC NUMERICAL INTEGRATOR AND COMPUTER  
 Filed June 26, 1947 91 Sheets-Sheet 1



Built by physicist John Mauchly and engineer John Presper Eckert, Jr. at the Moore school of engineering at the University of Pennsylvania, the ENIAC (Electronic Numerical Integrator and Computer) was the first fully functional digital computer. In use from February 1946 until October 1955, ENIAC was initially built for the U.S. military to calculate the paths of artillery shells. It was later used for calculations in nuclear weapons research, weather prediction and aerodynamics.

ENIAC filled an entire room, weighed thirty tons, and consumed two hundred kilowatts of power. It was comprised of over 19,000 vacuum tubes along with fifteen hundred relays and hundreds of thousands of resistors, capacitors and inductors. The electronics filled forty-two panels nine feet tall, two feet wide and one foot thick. Input and output were via punch cards.

The patent for the ENIAC was assigned to Sperry Rand Corporation, which sued Honeywell Corporation for patent infringement. In the ensuing battle over rights to the fundamental technology of electronic digital computing, the court invalidated the Mauchly/Eckert patent in light of earlier work done by physicist John V. Atanasoff at Iowa State College.

# February 2011

## Monthly Planner

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		<b>1</b> 1959 - Texas Instruments issued a patent on the integrated circuit	<b>2</b> 1892 - bottle cap with cork seal patented by William Painter	<b>3</b>	<b>4</b> 1941 - Roy Plunkett receives a patent for "Tetrafluoro-ethylene Polymers" - Teflon	<b>5</b>																																																																																											
<b>6</b>	<b>7</b>	<b>8</b> Chester Floyd Carlson, inventor of xerography, born.	<b>9</b>	<b>10</b>	<b>11</b> 1809 - Robert Fulton patented his steamboat for the first time	<b>12</b> 1900 - J.W. Packard receives his first automotive patent																																																																																											
<b>13</b> 1946 - ENIAC first operated at the Moore School of Electrical Engineering at the University of Pennsylvania	<b>14</b> 1978 - first "micro on a chip" was patented by Texas Instruments	<b>15</b>	<b>16</b> 1937 - patent for nylon issues to Wallace Hume Carothers assigned to du Pont (No. 2,071,250)	<b>17</b>	<b>18</b>	<b>19</b> 1878 - the phonograph patented by Thomas A. Edison (No. 200521)																																																																																											
<b>20</b>	<b>21</b> 1953 - Francis Crick and J. Watson discovered the structure of the DNA molecule <b>President's Day</b>	<b>22</b> <b>Washington's Birthday</b>	<b>23</b>	<b>24</b> 1839 - William Smith Otis issued a patent for the steam shovel (No. 1,089)	<b>25</b> 1837 - Thomas Davenport patents the first practical electrical motor (No. 132)	<b>26</b>																																																																																											
<b>27</b> 1900 - Felix Hoffman issued a patent for aspirin (No. 644,077)	<b>28</b>	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center;"> <p><b>Jan 2011</b></p> <table style="font-size: small; border-collapse: collapse; margin: 0 auto;"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></tr> <tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td></tr> <tr><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> <tr><td>30</td><td>31</td><td></td><td></td><td></td><td></td><td></td></tr> </table> </div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center;"> <p><b>Mar 2011</b></p> <table style="font-size: small; border-collapse: collapse; margin: 0 auto;"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr> <tr><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td></tr> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td></tr> </table> </div> </div>					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						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		
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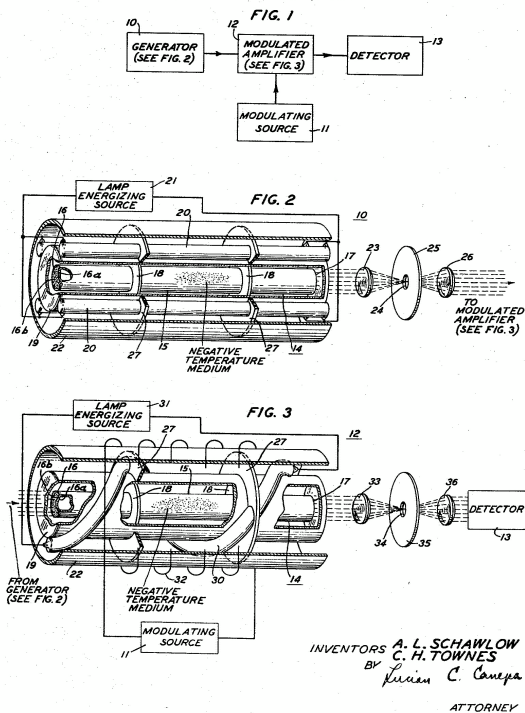
# Claiborne Patent Law Services

## Laser

March 22, 1960 A. L. SCHAWLOW ET AL 2,929,922

MASERS AND MASER COMMUNICATIONS SYSTEM

Filed July 30, 1958



On March 24, 1959, Charles Townes and Arthur Schawlow were granted a patent for the Maser, the precursor to the laser. The Maser (Microwave Amplification by Stimulated Emission) was a big hit, being used to amplify radio signals and as an ultrasensitive detector for space research.

Applying the same principles to other regions of the electromagnetic spectrum, in 1958 Schawlow and Townes presented a paper and filed a first patent application for amplification of infrared, visible and ultraviolet waves, the patent issuing in March, 1960. They did not, however, actually build the first Laser (Light Amplification by Stimulated Emission of Radiation).

There has been considerable controversy as to who did first build an optical laser. Although physicist Theodore Maiman of Hughes Research Laboratories developed and patented a ruby laser in 1960, credit is generally now generally given to Gordon Gould, who was a graduate student at Columbia University, where Townes taught. Gould built a working prototype visible light laser in 1958.

Today the laser is a fundamental technology employed in virtually every aspect of modern life, from digital media to retail merchandising to medical technology.

# March 2011

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6 1646 - first patent for any machine in the New World issued by the Pilgrim Bay Colony to Joseph Jenkes.	7 1876 - Alexander Graham Bell patented his telephone (No.174,465).	8	9	10	11 1890 - Vannevar Bush born.	12																																																	
13	14 1794 - Eli Whitney patents the cotton gin	15	16	17 St. Patrick's Day	18	19																																																	
20 1900 - Nikola Tesla receives a patent for the wireless transmission of electric power (No. 645,576) Spring begins	21	22 1960 - first laser patented (No. 2,929,922) by Arthur Schawlow and Charles Hard Townes (No. 2,929,922)	23 1903 - Wright brothers file patent application for airplane	24 1959 - the maser patented by Charles Townes (No. 2,879,439).	25	26																																																	
27 1855 - patent for kerosene to Abraham Gesner (No. 12,612).	28	29	30 1858 - first U.S. patent for a combination lead pencil and eraser to Hyman L. Lipman (No. 19,783).	31 1981 - a new single cell life form patented by Ananda Chakrabarty	<table border="1"> <thead> <tr> <th colspan="7">Apr 2011</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> </tbody> </table>		Apr 2011							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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# Claiborne Patent Law Services

**United States Patent** [19] **Patent Number:** 4,736,866  
**Leder et al.** [45] **Date of Patent:** Apr. 12, 1988

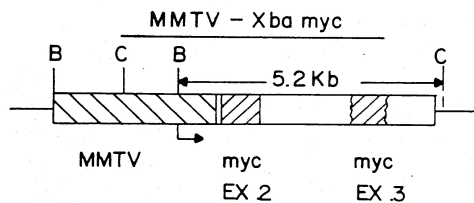
[54] **TRANSGENIC NON-HUMAN MAMMALS**  
 [75] **Inventors:** Philip Leder, Chestnut Hill, Mass.; Timothy A. Stewart, San Francisco, Calif.  
 [73] **Assignee:** President and Fellows of Harvard College, Cambridge, Mass.  
 [21] **Appl. No.:** 623,774  
 [22] **Filed:** Jun. 22, 1984  
 [51] **Int. Cl.<sup>4</sup>** C12N 1/00; C12Q 1/68; C12N 15/00; C12N 5/00  
 [52] **U.S. Cl.** 800/1; 435/6; 435/172.3; 435/240.1; 435/240.2; 435/320; 435/317.1; 935/32; 935/59; 935/70; 935/76; 935/111  
 [58] **Field of Search** 435/6, 172.3, 240, 317, 435/320, 240.1, 240.2; 935/70, 76, 59, 111, 32; 800/1  
 [56] **References Cited**  
**U.S. PATENT DOCUMENTS**  
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 4,579,821 4/1986 Palmiter et al. 435/240  
**OTHER PUBLICATIONS**  
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 Stewart et al. (1982) Science 217, 1046-8.  
 Costantini et al. (1981) Nature 294, 92-94.  
 Lacy et al. (1983) Cell 34, 343-358.  
 McKnight et al. (1983) Cell 34, 335.  
 Binster et al. (1983) Nature 306, 332-336.  
 Palmiter et al. (1982) Nature 300, 611-615.  
 Palmiter et al. (1983) Science 222, 814.  
 Palmiter et al. (1982) Cell 29, 701-710.  
*Primary Examiner*—Alvin E. Tanenholz  
*Attorney, Agent, or Firm*—Paul T. Clark  
 [57] **ABSTRACT**  
 A transgenic non-human eukaryotic animal whose germ cells and somatic cells contain an activated oncogene sequence introduced into the animal, or an ancestor of the animal, at an embryonic stage.  
 12 Claims, 2 Drawing Sheets

## Oncomouse®

The OncoMouse® transgenic animal technology relates to animal models that develop tumors as a consequence of containing a recombinant activated oncogene sequence. First described by Dr. Philip Leder, its usefulness in basic medical research is widely recognized as these mice are key model systems for the study of cancer and in testing the effectiveness of novel cancer therapeutics.

The patent for the transgenic mouse, assigned to E.I. DuPont Corporation, was the first patent issued for a higher organism. Its issuance sparked controversy among researchers and others concerning both the patentability of higher organisms and access by researchers to valuable patented research tools.

By agreement with the National Institutes of Health, DuPont provides the oncomouse transgenic animal technology to academic laboratories for research uses and allows unencumbered use and transfer of this technology among researchers at not-for-profit institutions. Recognizing that academic institutions may want to transfer oncomouse transgenic animal technology to commercial entities, DuPont provides commercial research license terms for such transfers.

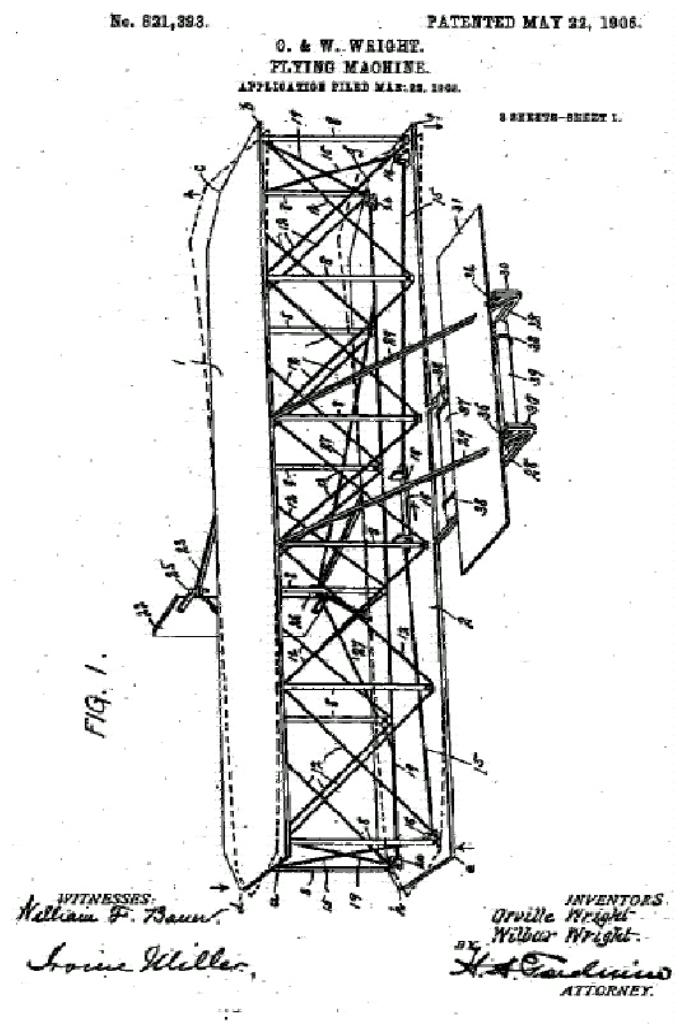


# April 2011

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3  Daylight Savings Time Begins	4	5	6  1869, Isaac Hodgson received patent No. 88,711 for his "roller skate."	7	8	9																																																																																				
10  1849 - first U.S. patent for a safety pin was issued to Walter Hunt (No. 6,281)	11	12  1988, the first U.S. patent was issued on an animal life form (No. 4,736,866)	13	14	15	16  1867 - Wilbur Wright born																																																																																				
17	18	19	20	21  1857 - first U.S. patent for a bustle issued to Alexander Douglas	22	23  1940 - leak-proof flashlight battery (Ray-o-Vac) patented by Herman Anthony (No. 2,198,423).																																																																																				
24  1934 - first pipeless organ patented by Laurens Hammond (No. 1,956,350)	25  1874 - Guglielmo Marconi born	26  1961 - integrated circuit patented by Robert Noyce (No. 2,981,877).	27  1791 - Samuel F.B. Morse born	28	29	30																																																																																				

# Claiborne Patent Law Services



## Wright Brothers Flying Machine

On December 17, 1903, near Kitty hawk, North Carolina, Wilbur and Orville Wright made the first controlled, powered, manned flight of a heavier-than-air aircraft. Their innovation was an advantageous wing-warping mechanism permitting aerodynamic control of the craft's flight by the aviator. That wing-warping innovation is the invention claimed in their first patent, filed nine months before but issuing two and a half years after their historic flight.

Wing-warping technology for flight control was soon displaced by the superior aileron technology developed by inventor Alexander Graham Bell and inventor-aviator Glen Hammond Curtiss. Today, while their achievement of flight will always be remembered, the Wright brothers' innovations are mostly of historical interest.

# May 2011

## Monthly Planner

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																				
1	2	3	4	5 <small>1809 - first U.S. patent to a woman, Mary Kies, for weaving straw (No. 1041X).</small>	6	7																																																																																				
8  <span style="color: red;">Mother's Day</span>	9	10	11  <small>1951 - Jay Forrester patents computer core memory</small>	12	13  <small>1890 - Nikola Tesla issued a patent for an electric generator (No. 428,057).</small>	14																																																																																				
15  <small>1923 - Listerine registered as a trademark (No. 168,134)</small>	16	17	18	19	20	21  <span style="color: red;">Armed Forces Day</span>																																																																																				
22  <small>1906 - Orville and Wilbur Wright receive a patent for "new and useful improvements in Flying Machines" (U.S. No. 871,392)</small>	23	24  <small>1938 - parking meter patented by Carl C. McGee (No. 2,118,318).</small>	25	26  <small>1981 - first pure software patent issues (No. 4,270,182)</small>	27  <small>1930 - cellophane transparent adhesive tape patented by Richard G. Drew - Scotch Tape (U.S. No. 1,760,820).</small>	28																																																																																				
29	30  <span style="color: red;">Memorial Day (Observed)</span>	31	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center;"> <p style="margin: 0;">Apr 2011</p> <table style="margin: 0; font-size: small;"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <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> </table> </div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center;"> <p style="margin: 0;">Jun 2011</p> <table style="margin: 0; font-size: small;"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td><td></td></tr> </table> </div> </div>				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	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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# Claiborne Patent Law Services

Sheet 1. 35 sheets

S. F. B. Morse.

Telegraph Signs.

N<sup>o</sup>. 1,627.

Patented Jun. 20, 1840.

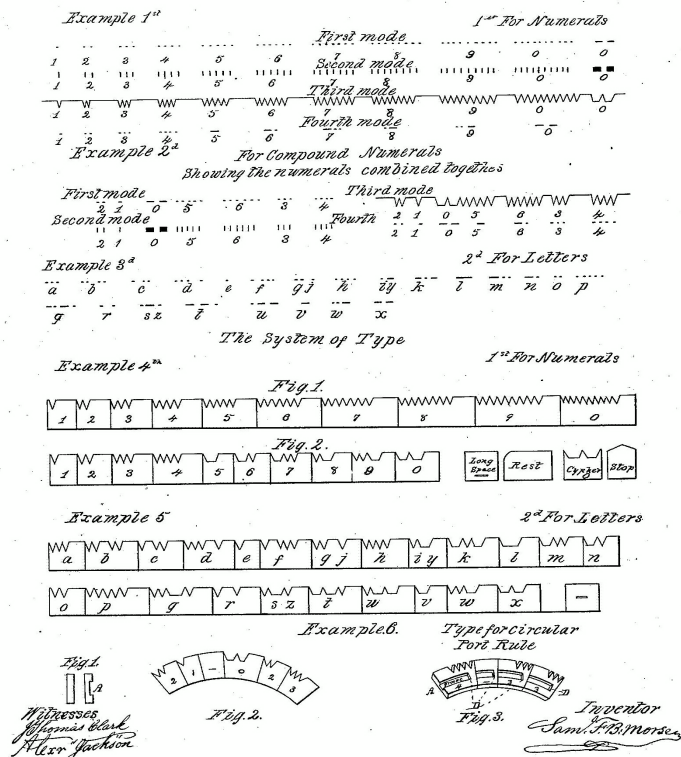
## Samuel Morse's Telegraph

On a voyage in 1832 returning to America from Europe, portrait painter Samuel F. Morse and dinner companion Charles Thomas Jackson, a physician, discussed electricity. Morse asked whether an electrical impulse could travel over a long line and Jackson assured him it could.

Morse is said to have exclaimed, "If this be so, and the presence of electricity can be made visible in any desired part of a circuit, I see no reason why intelligence might not be instantaneously transmitted by electricity to any distance." After dinner, Morse sketched a crude telegraph system.

Seven years and much experimentation later, Morse obtained his first patent for Telegraph Signs, teaching telegraphy as circuit, code ("signs"), and means for printing transmitted messages.

By the end of the Civil War, more than 200,000 miles of telegraph line were in use for business and personal communications.



# June 2011

## Monthly Planner

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(No. 90646).</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">2</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">3</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">4</p> <p style="font-size: small;">1872 - process for making vaseline patented by Robert Chesebrough (U.S. No. 127,568).</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">5</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">6</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">7</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">8</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">9</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">10</p> <p style="font-size: small;">1943 - ball point pen patented by Laslo Biro</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">11</p> <p style="font-size: small;">1963 - Mercury space capsule patented by Faget, Meyer, Chilton, Blanchard, Kehlet, Hammack and Johnson (U.S. No. 3 092 346)</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">12</p> <p style="font-size: small;">1906 - sound movies patented by John Ballance (No. 823,022)</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">13</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">14</p> <p style="text-align: center; color: red; font-weight: bold;">Flag Day</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">15</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">16</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">17</p> <p style="font-size: small;">1837 - Charles Goodyear receives first patent for rubber (No. 240)</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">18</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">19</p> <p style="text-align: center; color: red; font-weight: bold;">Father's Day</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">20</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">21</p> <p style="font-size: small;">1834 - Cyrus Hall McCormick receives a patent for his reaping machine</p> <p style="text-align: center; color: red; font-weight: bold;">Summer begins</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">22</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">23</p> <p style="font-size: small;">1912 - Alan Turing born</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">24</p> <p style="font-size: small;">1873 - Samuel Clemens receives a patent for a self-pasting Scrapbook (No. 140245)</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">25</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">26</p> <p style="font-size: small;">1894 - first U.S. patent for a gasoline-driven automobile issued to Karl Benz of Germanv</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">27</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">28</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">29</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">30</p> <p style="font-size: small;">1948 - transistor invented by three Bell Laboratory scientists in Murray Hill, NJ</p>	
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# Claiborne Patent Law Services

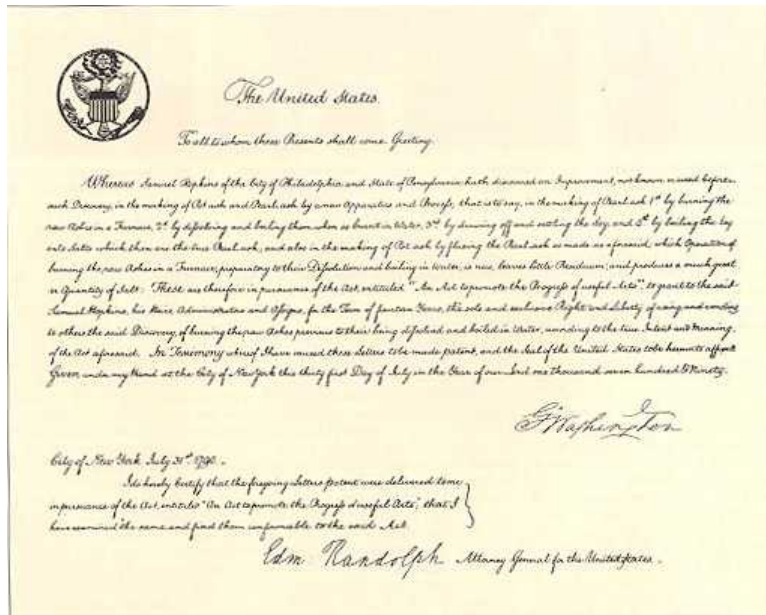
## First U.S. Patent

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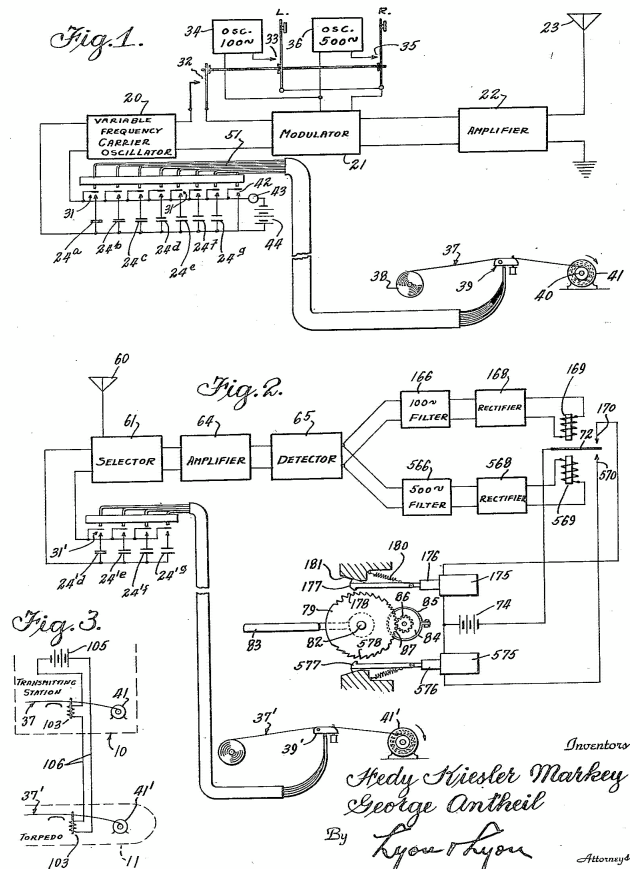
# Claiborne Patent Law Services

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																																										
	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 2011</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 2011							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 2011</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 2011							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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# Claiborne Patent Law Services

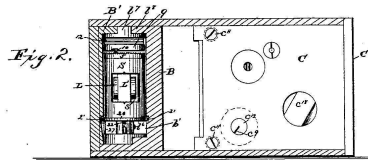
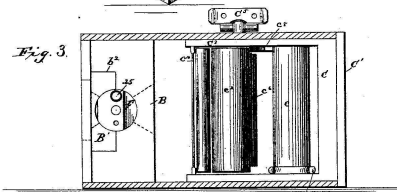
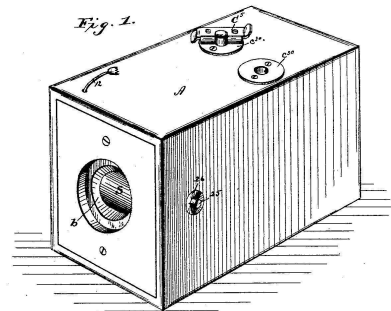
(No Model.)

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 <b>Labor Day</b>	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 <b>Autumn begins</b>	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)																																																																																												

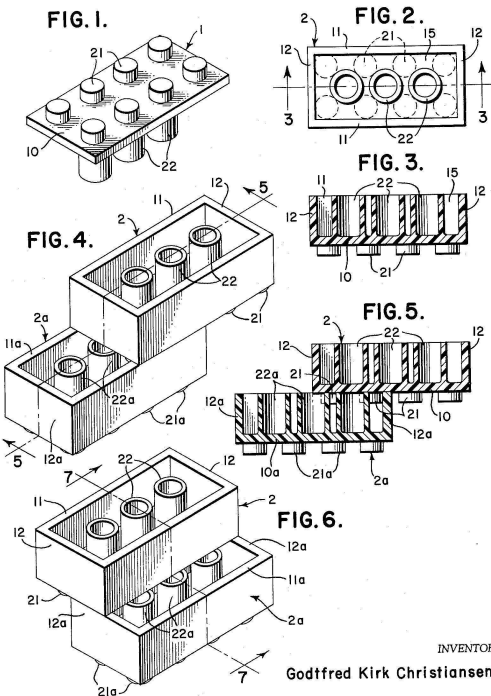
# Claiborne Patent Law Services

Oct. 24, 1961 G. K. CHRISTIANSEN 3,005,282

Filed July 28, 1958

TOY BUILDING BRICK

2 Sheets-Sheet 1



INVENTOR

Godtfred Kirk Christiansen

BY  
*S. Stevens, Davis, Miller & Parker*  
ATTORNEYS

## LEGOs

In 1932, master carpenter Ole Kirk Christiansen established a small business in the village of Billund, Denmark, manufacturing stepladders, ironing boards and wooden toys. Two years later, focusing on the toys, he named the business LEGO, from the Danish "LEg GOdt" for "play well".

An early adopter of plastic injection molding, LEGO developed its Automatic Binding Bricks in the 1950s, the now familiar plastic interlocking LEGO blocks patented in the United States in 1961. The bricks enabled the "LEGO System of Play", originally comprising 28 sets and 8 vehicles with extra parts available. This revolutionary new approach to toys allowed the owner to expand and create without a strict set of guidelines to follow, fostering creativity.

In the years since their introduction, LEGOs have been enormously successful. Today, approximately 20 billion LEGO pieces are manufactured each year and LEGOs have fostered the creativity of more than 300 million children. Indeed, there are few inventors alive today who have not played with LEGOs at one time or another.

# October 2011

## Monthly Planner

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<div style="display: flex; justify-content: space-around; align-items: center;"> <table border="1" style="border-radius: 10px; padding: 5px;"> <caption style="text-align: center;">Sep 2011</caption> <thead> <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>1</td><td>2</td><td>3</td><td></td><td></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> <table border="1" style="border-radius: 10px; padding: 5px;"> <caption style="text-align: center;">Nov 2011</caption> <thead> <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>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr> <tr><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td></tr> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td>27</td><td>28</td><td>29</td><td>30</td><td></td><td></td><td></td></tr> </tbody> </table> </div>						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		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				1
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2	3 <small>1899 - motor-driven vacuum cleaner patented by John S. Thurman (No. 634.042)</small>	4	5	6	7	8																																																																																				
9 <small>1855 - first U.S. patent issued for a sewing machine motor to Isaac Merritt Singer (No. 13,661)</small>	10 <small>Columbus Day (Observed)</small>	11	12	13	14	15																																																																																				
16	17	18	19	20	21 <small>1833 - Alfred Nobel born</small>	22																																																																																				
23	24 <small>1961 - Lego patented by G.K. Christiansen (No. 3,005,282)</small>	25	26	27	28	29																																																																																				
30 <small>1888 - ballpoint pen patent issued to John L. Loud (No. 392,046). Daylight Savings Time Ends</small>	31 <small>Halloween</small>																																																																																									

# Claiborne Patent Law Services

Nov. 17, 1970 D. C. ENGELBART 3,541,541  
X-Y POSITION INDICATOR FOR A DISPLAY SYSTEM  
Filed June 21, 1967 3 Sheets-Sheet 1

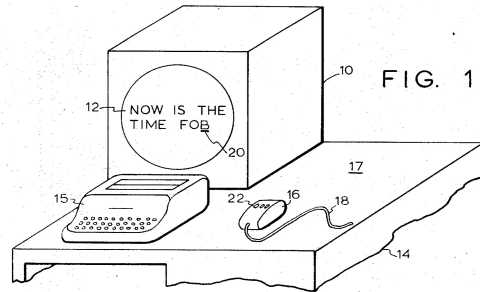


FIG. 1

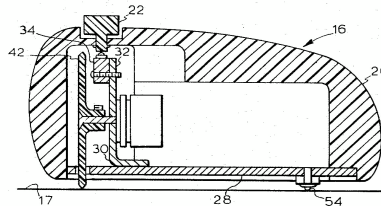


FIG. 2

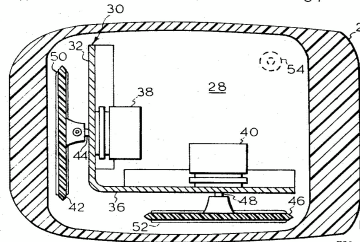


FIG. 3

INVENTOR.  
DOUGLAS C. ENGELBART  
BY *Lindenberg & Friedrich*  
ATTORNEYS

## Computer Mouse

In the 1960s, Douglas Engelbart and a group of visionary colleagues at the Stanford Research Institute developed the NLS (oN Line System), the first truly modern-style computer work station, well adapted to word-processing. Englebart developed a device for the purpose of selecting, moving and manipulating text processed by the NLS. The researchers nick-named the little block with buttons connected to the computer system by a tail-like cable the "mouse".

Not just a pointing tool, the mouse was envisioned from the beginning as an essential component in the system to provide "Human Augmentation", making systems and tools for people to work smarter and better.

Today, Englebart's invention sits on most of the desks in the world, enabling users to deal quickly and effectively with the complexities of modern life.

# November 2011

## Monthly Planner

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		<b>1</b> 1879 - Edison files patent application for electric lamp 1880 - Edison files patent application for Electric Lamp	<b>2</b>	<b>3</b> 1892 - First automatic telephone exchange, La Porte Indiana	<b>4</b>	<b>5</b> 1895 - George B. Selden patents a gasoline-driven automobile (No. 549,160)																																																																																																										
<b>6</b> 1923 - patent issued to Col. Jacob Schick for the first electric shaver	<b>7</b>	<b>8</b> 1879, African-American Thomas Elkins patents refrigerating apparatus (No. 221,222)	<b>9</b> 1842 - design patent D1 issued to George Bruce for typefaces (No. D1)	<b>10</b> 1951- Direct dial long distance telephone service begins in U.S.	<b>11</b> Veterans Day	<b>12</b>																																																																																																										
<b>13</b>	<b>14</b> 1765 - Robert Fulton born	<b>15</b> 1887 - patent for dry cell battery to Carl Gassner (No. 373,064)	<b>16</b>	<b>17</b> 1970 - patent issued for computer mouse to Doug Engelbart (No. 3,541,541)	<b>18</b>	<b>19</b> 1872 - first patent for an adding machine issued to E.D. Barbour (No. 133,188).																																																																																																										
<b>20</b> 1923 - patent issued to African-American Garrett Morgan for an automatic traffic signal (No. 473,074)	<b>21</b>	<b>22</b> 1927 - patent to Carl J.E. Eliason for a snowmobile (No. 1,650,334)	<b>23</b> 1897 - patent issued to black American inventor, John Lee Love, for a pencil sharpener (No. 594,114)	<b>24</b> 1874 - patent to Joseph F. Glidden for barbed wire (No. 157,124)  <span style="color: red;">Thanksgiving</span>	<b>25</b>	<b>26</b>																																																																																																										
<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b> 1858 - Patent issued to John Landis Mason for fruit jar - the Mason jar (No. 22,186).	<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="7">Oct 2011</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></td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">6</td> <td style="text-align: center;">7</td> <td style="text-align: center;">8</td> </tr> <tr> <td style="text-align: center;">9</td> <td style="text-align: center;">10</td> <td style="text-align: center;">11</td> <td style="text-align: center;">12</td> <td style="text-align: center;">13</td> <td style="text-align: center;">14</td> <td style="text-align: center;">15</td> </tr> <tr> <td style="text-align: center;">16</td> <td style="text-align: center;">17</td> <td style="text-align: center;">18</td> <td style="text-align: center;">19</td> <td style="text-align: center;">20</td> <td style="text-align: center;">21</td> <td style="text-align: center;">22</td> </tr> <tr> <td style="text-align: center;">23</td> <td style="text-align: center;">24</td> <td style="text-align: center;">25</td> <td style="text-align: center;">26</td> <td style="text-align: center;">27</td> <td style="text-align: center;">28</td> <td style="text-align: center;">29</td> </tr> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">31</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Oct 2011							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">Dec 2011</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 style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">6</td> <td style="text-align: center;">7</td> <td style="text-align: center;">8</td> <td style="text-align: center;">9</td> <td style="text-align: center;">10</td> </tr> <tr> <td style="text-align: center;">11</td> <td style="text-align: center;">12</td> <td style="text-align: center;">13</td> <td style="text-align: center;">14</td> <td style="text-align: center;">15</td> <td style="text-align: center;">16</td> <td style="text-align: center;">17</td> </tr> <tr> <td style="text-align: center;">18</td> <td style="text-align: center;">19</td> <td style="text-align: center;">20</td> <td style="text-align: center;">21</td> <td style="text-align: center;">22</td> <td style="text-align: center;">23</td> <td style="text-align: center;">24</td> </tr> <tr> <td style="text-align: center;">25</td> <td style="text-align: center;">26</td> <td style="text-align: center;">27</td> <td style="text-align: center;">28</td> <td style="text-align: center;">29</td> <td style="text-align: center;">30</td> <td style="text-align: center;">31</td> </tr> </tbody> </table>		Dec 2011							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
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# Claiborne Patent Law Services

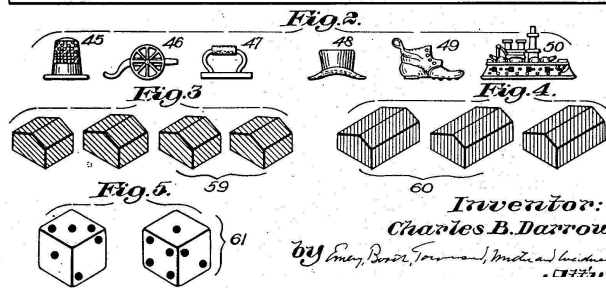
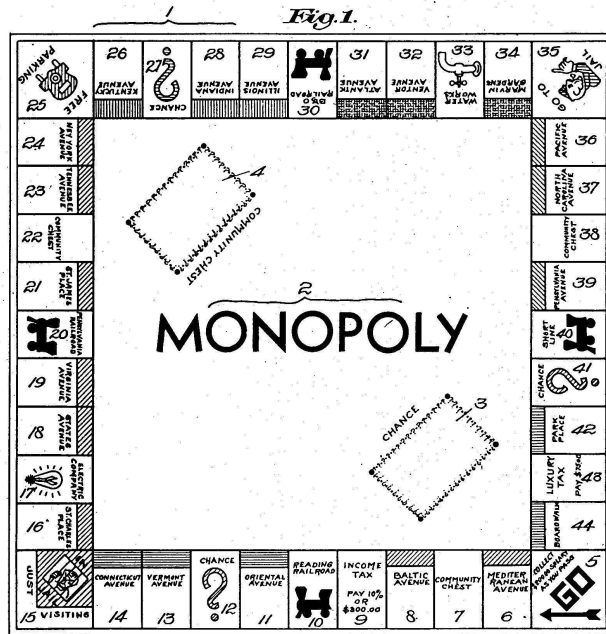
Dec. 31, 1935.

C. B. DARROW  
BOARD GAME APPARATUS  
Filed Aug. 31, 1935

2,026,082

7 Sheets-Sheet 1

## Monopoly



In 1934, Charles B. Darrow from Germantown, Pennsylvania showed executives of Parker Brothers his newly invented game, Monopoly. The game company rejected it ("for 52 design errors!") and Darrow produced and sold the game on his own. The game was instantly successful, with Darrow selling 5,000 sets to one Philadelphia department store alone.

Unable to keep up with demand, Darrow returned to Parker Brothers, who bought the game. In 1935, Monopoly was the best-selling game of the year.

Since then, over 200 million Monopoly games have been sold world-wide, and more than a half-billion people have played it. Monopoly is now owned by Hasbro, Inc.

Monopoly®, the distinctive design of the game board, the four corner squares, as well as each of the distinctive elements of the board and the playing pieces are trademarks of Hasbro, inc. for its real estate trading game and game equipment. ©1935, 1936, 1947, 1951, 1952, 1954, 1961, 1973, 1994, 1995, 1996, 1997 Hasbro, Inc.

# December 2011

## Monthly Planner

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																																		
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4	5	6 1945 - Microwave oven patented	7 1889 - pneumatic tire patented by John Boyd Dunlap	8 1765 - Eli Whitney born	9 1906 - computer pioneer Grace Murray Harper born	10 1815 - Countess Augusta Ada King Lovelace born																																																																																																		
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25 Christmas	26 1791 - Charles Babbage born	27	28 1869 - William Finley Semple patents chewing gum (No. 98,304).	29 1800 - Charles Goodyear born	30	31 1935 - patent issues for the game of Monopoly by Charles Darrow (No. 2,026,082).  New Year's Eve																																																																																																		