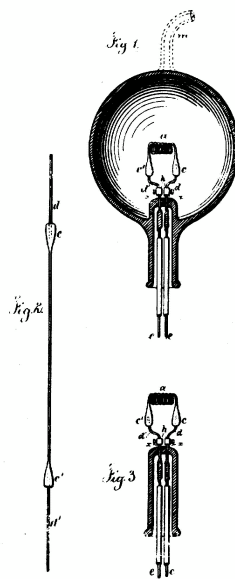


# Claiborne Patent Law Services

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

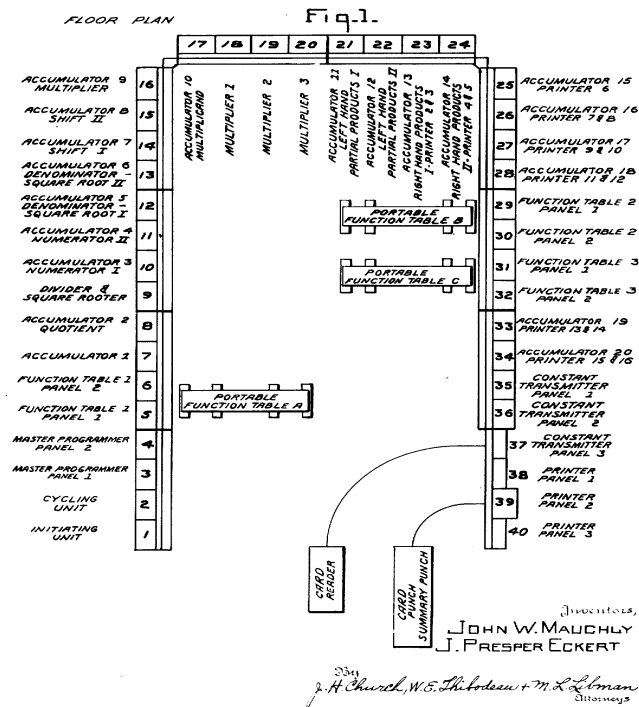
## Monthly Planner

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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>  1889 - Dr. Herman Hollerith receives three US patents for a tabulating machine (No. 395,781, -2, -3)																																																																																				
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>  1907 - three-element vacuum tube patented by Lee de Forest (No. 841.387).																																																																																				
<b>16</b>	<b>17</b>  1871 - patent was issued for an "endless wire rope way" - the cable-car of San Francisco (No.110,971)  Martin Luther King, Jr.	<b>18</b>	<b>19</b>  1736 - James Watt born	<b>20</b>	<b>21</b>	<b>22</b>																																																																																				
<b>23</b>	<b>24</b>  1922 - Eskimo Pie "confection" patented by Christian K. Nelson (No. 1.404.539).	<b>25</b>	<b>26</b>	<b>27</b>  1880 - Thomas Edison receives a patent for his electric incandescent lamp (No. 223.898)	<b>28</b>  1886 - Karl Benz receives German patent (DRP. No. 37435) for an internal combustion engine powered automobile.	<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 2005</b></p> <table style="font-size: small; border-collapse: collapse;"> <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 2005</b></p> <table style="font-size: small; border-collapse: collapse;"> <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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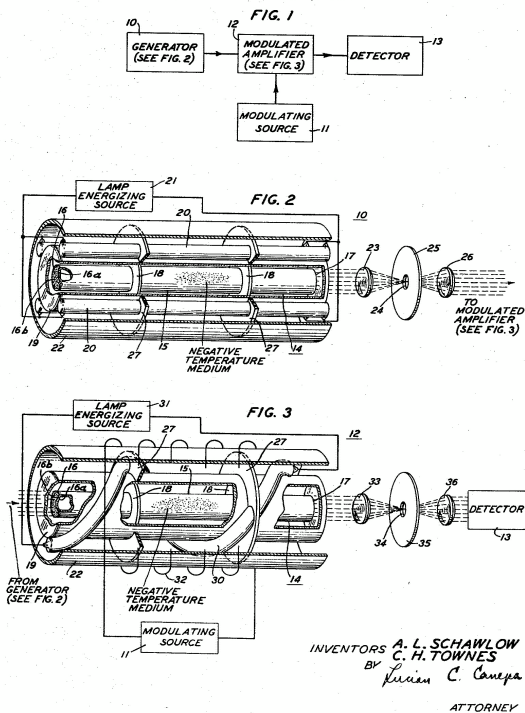
# Claiborne Patent Law Services

## 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 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> </tbody> </table>		Apr 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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