

**ILFORD**  
**125**  
**1879-2004**





# ILFORD

# 125

## 1879-2004

**In 2004, ILFORD Imaging is celebrating 125 years of photographic manufacturing.**

From humble beginnings, when Alfred Hugh Harman began making Gelatine Dry Plates in the basement of his house in Cranbrook Road, Ilford, Essex, to today's global manufacture of the world's leading inkjet technology, imagery and photography have always been at the heart of the matter.

Photography is apparent wherever we look. It is almost impossible to get through the day without some contact with a photographic image. The photo can be used to record everything from a personal record of our past to becoming an icon of an era.

It is hard to imagine a world without images, but even harder to believe that 125 years ago, in the formative years of photography, the electric light had not been invented.

This made these early days of Photography, quite literally, the dark ages, with photographers relying on gaslight and natural sunlight to expose and process their images. It would be several years before electricity was available to even a minority of the



world's population. As we look around our world today, there are so many familiar, everyday items that we take for granted that simply would not have existed in 1879; the automobile, telephone and even the humble zipper were not to be imaginable for many years to come.

Just as photography has become part of our everyday lives, so many other items that we now take for granted have come into existence in the past century and a quarter.

This booklet takes a look at some of these technological underdogs and at many of the events that have shaped the past 125 years,

all of which have been captured photographically and are part of a heritage that ILFORD Imaging is proud to be a major part of.

Did you know, for instance, that radio was invented and 'on air' a full year before the first piece of music was broadcast? Did you also know that ILFORD is older than electricity, telephone, cars....you name it, and you will probably find ILFORD is older than it!! If you would like a copy of this years ILFORD Calendar, which reflects this booklet, visit [ilford.com](http://ilford.com).

ILFORD will continue to be a leader in Imaging and is looking forward to the challenges to come over the next 125 years.



One of the modern wonders of the world started to take shape in 1880 as work commenced on the Panama Canal, a project that would take 23 years to complete. The first town in the USA was illuminated by electricity and by the end of the year, Broadway, known as "the Great White Way" was lit up. The construction of Cologne Cathedral was completed after 600 years and Henry Draper took the first photograph of the Orion Nebula.

While the Earp Brothers were busy "shooting it out" at the OK Corral in Tombstone, Arizona, the first international telephone conversation was taking place in 1881.

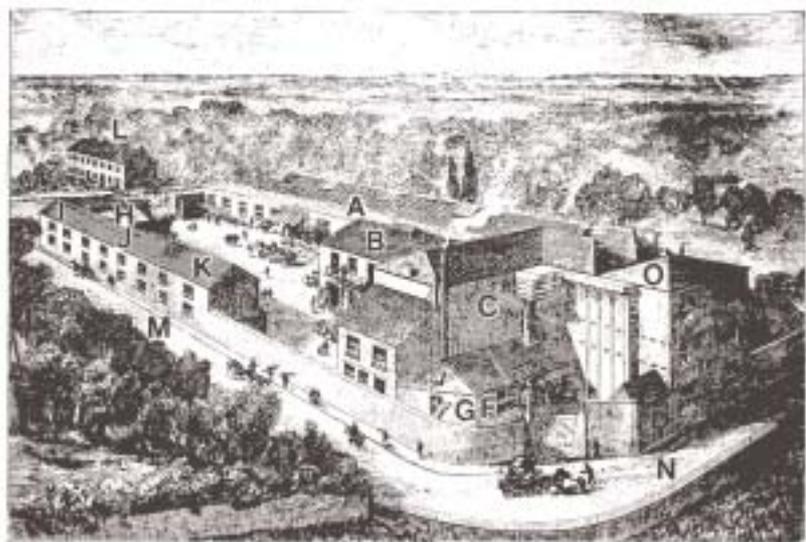
PT Barnum bought his world famous elephant, Jumbo, in 1882, the year that Queen Victoria dedicated Epping Forrest. Edison created the first string of Christmas Tree Lights, the first district in New York City was lit by electricity and Harry W Sealy patented the Electric Iron.

After a Test Match in Sydney, Australia, the English Cricket Team were presented with the Ashes of a Bail in 1883. Louis Waterman began experiments to produce a "leak proof" fountain pen, which he patented the following year and the Orient Express set out on its maiden journey, linking Turkey to Europe by rail.

# 1879-1890

**In 1879, as Alfred Hugh Harman was busy making Gelatine Dry Plates, using little more than a teapot in the basement of his Essex House, across the Atlantic, Thomas Edison had been busy inventing the incandescent light. By the end of the year, the first commercially available**

**Electric Lights were in use, James Ritty had invented the Cash Register and the first of many stores had been opened by FW Woolworth. In the same year a patent was issued for the first Automatic Telephone Switching System, a technology still in its relative infancy.**



With an explosive force of 1300 Megatons, Krakatoa erupted in 1883, killing 36,000 people.

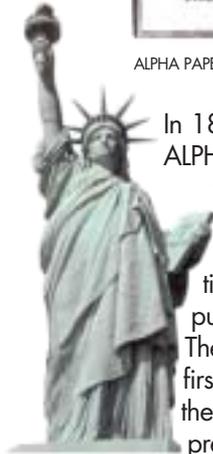


ALPHA PAPER circa 1884

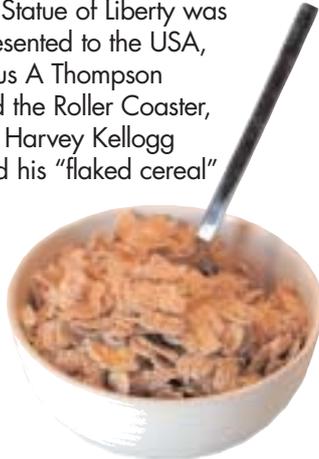
Queen Victoria celebrated her Golden Jubilee in 1887, the year in which Adolf Fick invented the Contact Lens and the first Esperanto book was published. The publishing world would later hail the invention of the Monotype type-casting machine, which was patented by Tolbert Lanston this year as the photographic world would hail Hannibal W Goodwin for patenting Celluloid Photographic Film.

opened. The world's first Dishwashing machine was marketed, Bayer introduced Aspirin in powder form and by the end of the year, Thomas Edison was showing his first Motion Picture.

John Hart, convicted of murder in 1890, became the first to sit in the Electric Chair and Ellis Island, New York, opened it's doors as a US Immigration Depot.



In 1884, ILFORD introduced its ALPHA paper. Coincidentally, the word alpha appeared in the first volume of the Oxford English Dictionary, titled "A-Ani" which was published in the same year. The construction of Chicago's first Sky Scraper began, the Statue of Liberty was presented to the USA, LeMarcus A Thompson invented the Roller Coaster, Dr John Harvey Kellogg patented his "flaked cereal"



and George Eastman patented his "paper-strip" photographic film. The following year, 1885, the Eastman Film Company manufactures the first commercial Motion Picture Film and as the Statue of Liberty arrived in the USA, Gottlieb Daimler patented the first Motorcycle.

In 1888 the Wax Drinking Straw was patented by Marvin C Stone, the National Geographic Society was founded in Washington DC, the English Football League was established and the Eastman Film Company became Eastman Kodak, coinciding with the patent of it's "Box Camera".



In 1886, the London Times published the world's first "classified advert" and the first successful gasoline driven car was patented by Karl Benz. Horlicks was offered to the public this year, the first Cremation took place in England and John Pemberton, a Chemist, began to advertise "Coca-Cola" (with Cocaine), a "brain and nerve tonic".

William Bundy invented the "time-card" clock, Theophilus von Kannel invented the Revolving Door, Vincent Van Goch cuts off his ear and Jack the Ripper killed his last victim.

Viewing Paris from a height of 300 metres became possible in 1889 as the Eiffel Tower officially

## 1891-1900

**In 1891 Carnegie Hall opened in New York City featuring Tchaikovsky as the guest conductor and Britain was linked to the Continent by Telephone for the first time. Travellers Cheques were patented this year and Thomas Edison was particularly busy, patenting both the Motion Picture Camera and Radio.**

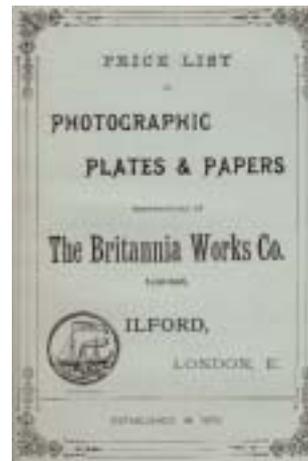


Jesse W Reno, George C Blickensdorfer and Charles Brady King are certainly not household names, but respectively, they were responsible for patenting the Escalator, the Portable Typewriter and the Pneumatic Hammer in 1892, the year that George Sampson patented the Clothes Dryer and Scotsman Sir James

In 1894 the Manchester Ship Canal opened to traffic and 1895 turned out to be the year of the Motion Picture. August and Louis Lumière showed their first movie to an invited audience, the world's first Cinema opened in Paris and the first commercial movie performance took place. This was also the year that

sparkling the Gold Rush and the Dial Telephone was invented.

"Cyrano de Bergerac" opened in Paris, Candy Floss (Cotton Candy) was invented by William Morrison and John C Wharton, and the first Submarine with an internal combustion engine was demonstrated in 1897.



The following year, the first Telephone message from a submerged Submarine was transmitted and could have been answered by the Answering Machine which was invented this year. Also in 1898 the Roller Coaster was patented, Pierre and Marie Curie discovered Radium, the Automobile speed record was set at 39mph and the first car insurance policy was issued in the USA by the Travellers Insurance Company.



Dewar invented the Vacuum Flask, now known as the Thermos Flask. American, John Froehlich invented the Mechanical Tractor this year, the Pneumatic Automobile Tyre was invented and Sunday School Teacher Lizzie Borden was arrested in Fall River, Massachusetts for the murder of her parents.

Wilhelm von Roentgen discovered X-ray, Oscar Wilde's "The Importance of being Ernest" was first performed in London and the premiere of Tchaikovsky's "Swan Lake" took place.

Edison completed his first movie in 1893, "Record of a Sneeze", which was released in Theatres across the US the following year. The New York Stock Exchange crashed this year and Lizzie Borden was found to be innocent. The Crompton Company in England made the first Electric Toaster and in France it became necessary to take a Driving Test to acquire a license. Leo Hendrik Baekeland invented Velox Photographic Paper this year.

Dr Henry Smith took the first X-ray photograph in the USA in 1896, the year the Modern Olympics began in Athens. The Vitascope System for Movie Projection was demonstrated, the Electric Stove was invented by William Hadaway and Henry took his first Ford through the streets of Detroit. During a visit by the Chinese Ambassador to New York City, his Chef invented Chop Suey, Gold was discovered in the Klondike River,

At the close of the Century the Lawn Mower was patented in 1899, the year that Carnation processes it's first can of evaporated milk and Conrad Hubert invented the Flashlight. Henry Bliss became the world's first fatality of a car accident and the first Jukebox appeared in the Palais Royal Hotel in San Fransisco.

Johann Vaaler, a Norwegian Patent Clerk is probably best remembered for his world famous invention, the Paper Clip.



The Twentieth Century opened with the word "Escalator" being registered as a trademark by the Otis Elevator Company, the Hamburger being created in Connecticut and British Troops relieving Mafeking. The Zeppelin was invented in 1900 by Count Ferdinand Von Zeppelin and a prize of 100,000 francs was being offered for communication with Extra Terrestrials. Strangely, Martians were excluded as they were considered too easy to contact.

## 1901-1910

**Marconi sent the first Transatlantic radio signal in 1901, Hubert Cecil Booth invented the modern Vacuum Cleaner, King Camp Gillette began selling Safety Razors, Frank Hornby invented Meccano and Australia declared its independence. In 1902 the first Science Fiction Film "A Trip to the Moon" was released and the Texas Oil Company, now known as Texaco, was formed. French Physicist, George Claude**



**invented the Neon light this year and James Mackenzie invented the Polygraph Lie Detector. HF Callahan was granted a patent for the invention of the Window Envelope and Edward VII was crowned, following the death of Queen Victoria. The Britannia Works Ltd. changed its name to ILFORD, Limited. The comma was insisted upon by the Ilford Urban District Council and would not be removed from the name for over 50 years.**

In 1903 the "Tour de France" was established and Niagra Falls ran

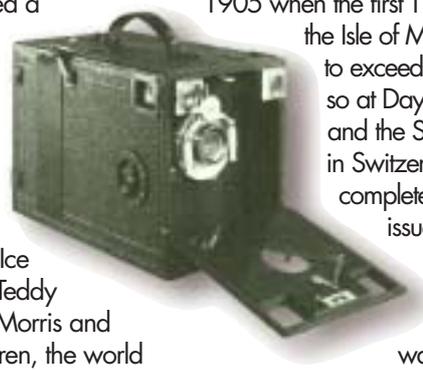


this year and Willem Einthoven of the Netherlands invented the Electrocardiogram (ECG). On the 17<sup>th</sup> of October 1903 a patent was granted to the Lumière Brothers, August and Louis, for their Autochrome colour photograph system. The first Motion Picture with a plot, "The Great Train Robbery" was released this year.

Wilbur Wright made his first flight in 1904 and later that year achieved the first flight to last more than five minutes. The Daily Mirror began publishing, Silicone was invented and the Bell Telephone Company of Antwerp, Belgium formed.



dry, due to drought. The Wright Brothers were granted a patent for an Aeroplane and later that year made the first flight at Kittyhawk, the Ford Motor Company incorporated, Italo Marchioni patented Ice Cream and the first Teddy Bear was made by Morris and Rose Michton. Children, the world over, owe a debt of thanks to Edward Binney and Harold Smith, who co-invented the Wax Crayon



Speed was the flavour of the year in 1905 when the first TT race ran on the Isle of Man, the first car to exceed 100mph did so at Daytona Beach and the Simplon Tunnel in Switzerland was completed. The first issue of Variety magazine was published, the Popsicle was invented by 11 year old Frank Epperson and Mary Anderson of Alabama invented the Windscreen Wiper.



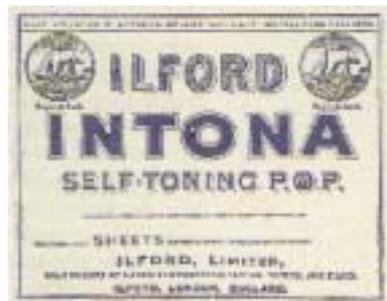
The first commercially available radio was advertised in 1906, although there was little to listen to on it for several years to come. Kellogg and Bollin formed the "Battle Creek Toasted Corn Flake Company" and Rolls Royce Limited was established. The first Aeroplane flight in Europe took place in the same year that Einstein introduced his "Theory of Relativity". Also in 1906 the first animated Cartoon was copyrighted by J Stuart Blackton, Dr Lee DeForest demonstrated the "Radio Tube" and SOS was adopted as the new call for help.

began in Lyon, France, New Zealand became a Dominion, French Cyclist Paul Cornu flew a twin rotor Helicopter and Bakelite was invented by Leo Hendrik Baekeland who invented Velox Photographic Paper fourteen years earlier. George Constant Washington, an English Chemist living in Guatemala, invented the first mass produced Instant Coffee this year. It would be another 3 years before he took his product to market.

"Be Prepared" was the motto in 1908, when Baden-Powell established the Scout movement.

The Magnetic South Pole was discovered by Shackleton and Joan of Arc was declared a Saint in 1909, 478 years after her execution. Washington's "Red E Coffee" the world's first Instant Coffee, came on the market, The US army took delivery of the first Military Aircraft and Colour Moving Pictures were demonstrated at Madison Square Gardens, New York.

British Miners began striking for an 8 hour working day in 1910 and the first Air Display took place at Hendon UK. Air travel dominated 1910, with the first Seaplane taking off from water at Martigues, France. The first night-flight took place, as did the first English Channel round-trip, the first round-trip from New York to Philadelphia,



Had you been eager to buy your first radio in 1906, you would have had to wait a year to hear any music. The first broadcast of a Musical Composition took place in 1907, the same year that Houdini escaped from chains, underwater, in 57 seconds, the first Taxi Cab appeared in New York and United Parcel Services formed in Seattle. The Outboard Motor was invented by Norwegian Ole Evinrude, Alva J Fisher invented the Washing Machine and full commercial production of Louis and August Lumière's Autochrome plates

Mother's Day was first observed this year and the Federal Bureau of Investigation was established. You may have been lucky enough to become a traveller on the first Passenger Air Flight or not so lucky, like Thomas Selfridge, who became the first fatality of powered flight this year although fortunately, not on the same flight. Henry Ford unveiled the Model T for the handsome price of \$825, the Tea Bag was invented by Thomas Sullivan of New York and Cellophane was the brainchild of Jacques Edwin Brandenberger.

the first Zeppelin Airship passenger flight, the first test flight of a twin-engined plane and, unfortunately, the first Aircraft collision in Milan. Halley's Comet caused near panic as the Earth passed through it's tail, the first Movie Stunt was performed, featuring a man jumping into the Hudson River from a burning balloon and the first Neon Lights were seen in public at the Paris Car Show.



although it would be another 13 years until the modern day tin opener was invented. 1912 saw the first parachute jump from a plane, Harriet Quimby became the first woman pilot to cross the Channel and 15 young women were fired by their employer, Curtis Publishing, for dancing the "Turkey Trot" during their lunch break. The Geiger Counter, after four years in development, was invented

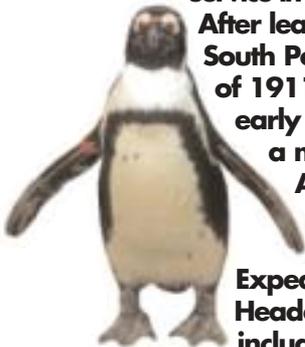


# 1911-1920

In 1911, the first non-stop flight from London to Paris would have taken you 3 hours and 56 minutes and you may have been lucky enough to spectate the first Monte Carlo Rally. The Indy 500 race was established this year and Neanderthal remains were discovered in the Channel Islands. The Mona Lisa was stolen from the Louvre and the Royal Mail offered the first Air Mail service in the world.

After leaving for the South Pole at the end of 1911, Scott arrives early in 1912, a month after Admundsen had reached it. Scott's Expedition Headquarters

included darkroom facilities for Herbert George Ponting, the Expedition's Photographer.



A reconstruction of the Base Camp at "Kelly Tarltons Antarctic Encounter and Underwater World" in Auckland, shows the array of ILFORD and Rajar printing papers used exclusively by Ponting during the Expedition.



The Titanic underwent sea trials prior to her maiden voyage bound for New York and the world's first cannery opened in the UK, to supply food for the Royal Navy,

by Hans Wilhelm Geiger, Piltown Man was discovered, Edgar Rice Burroughs published "Tarzan" and the first Mack Sennett "Keystone Comedy" was released.

Suffragette Emily Pankhurst was sentenced to 3 years imprisonment at the beginning of 1913, the Panama Canal opened to traffic after 23 years of construction and the Brassiere was invented by Mary Phelps Jacob. Gideon Sundback, a Swedish Engineer from Hodoken, should be a familiar name as he was responsible for inventing the all purpose Zipper. A more familiar name is Charlie Chaplin, who began his film career in 1913 at Keystone on contract for \$150 per week. The Mona Lisa was recovered, two years after being stolen and the first Crossword puzzle was published in "New York World". Ford introduced the Continuous Moving Assembly Line, which allowed the

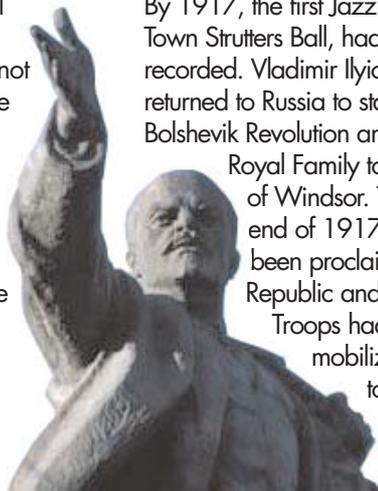


production of one car every 2 minutes 38 seconds and the world's first "drive up" Gasoline station opened in Pittsburg. The Merck Chemical Company patented a new drug this year, which would gain notoriety in the later part of the 20<sup>th</sup> Century and become known as "Ecstasy".

The World, the Flesh and the Devil, was the title of the first full colour motion picture, shown in London in 1914. Archduke Ferdinand and his wife were assassinated in Sarajevo, Mahatma Ghandi was arrested after campaigning for Indian Rights in South Africa and Austro-Hungaria attacks Serbia, beginning the Great War. The Air-Conditioner was patented by WH Carrier in America and Englishman, Henry Brearly invented Stainless Steel, Richard Hutchins Goddard patented a Liquid Fuelled Rocket Motor and the US State Department started to require photographs for Passports.



In 1915, the 1,000,000<sup>th</sup> Model T Ford rolled off the production line and Albert Einstein published his "General Theory of Relativity". He would not have used a Mechanical Pencil to write his theory as Tokuji Hayakawa would not invent one until later in the year. Garrett A Morgan invented the Gas Mask this year while Eugene Sullivan and William Taylor co-invented Pyrex. Maurice Levy invented the Lipstick Tube and the first 3D movie was screened this year. The film was untitled and featured scenes of New York and New Jersey.



The "Birdman of Alcatraz" received solitary confinement as Britain introduced Daylight Saving Time (British Summer Time) in 1916. The first Boeing Aircraft took to the skies and Tanks (Little Willies) were used in war at the Battle of Flors, France. It was in this year that Variety Magazine published the first ever reference to "Jazz".

"Tarzan of the Apes", the first of many Tarzan films was premiered at the Broadway Theatre in 1918. Women in Britain got the right to vote. They did have to be over 30 years old though. The United States introduced Daylight Saving Time and Britain opened the offensive on the Western Front. In Utah's Wasatch National Park,



By 1917, the first Jazz record, Dark Town Strutters Ball, had been recorded. Vladimir Ilyich Lenin returned to Russia to start the Bolshevik Revolution and the British Royal Family took the name of Windsor. Towards the end of 1917, Russia had been proclaimed a Republic and American Troops had been mobilized in Europe to enter the conflict of World War One.

504 sheep were killed by lightning and Margaret Owen set the World Record for typing, reaching 170 words per minute. At 11am on the 11<sup>th</sup> of November, the hostilities in Europe ended and in the December of 1918, Robert Ripley began his long running "Believe It Or Not" column in the New York Globe.

The first public performance of Holst's "Planet Suite" took place in 1919, the year that Alcock and Brown crossed the Atlantic by air. The "Pop Up" Toaster was invented



this year, improving on the original Toaster designed 26 years previously. By early 1920, Silver had reached the record price of \$1.37 per ounce. Douglas Fairbanks and Mary Pickford married, becoming the first "Celebrity Couple", KDKA, Pittsburg went "On Air" as the world's first Commercial Radio Station, the Blow-Dryer was invented and Kononklijke-Luchtraar-Maatschappij, better known as KLM, make their maiden flight.

## 1921-1930

**Chaplin's classic, "The Kid", starring Jackie Coogan was released in 1921 along with the memorable performance of Rudolph Valentino in "The Sheik". The Adhesive Bandage was invented this year by Earle Dickson, the man responsible for giving us the "Band-Aid".**

By the beginning of 1922 you could be the first of millions to subscribe to "Readers Digest"

magazine. One Thousand copies of James Joyces' "Ulysees" were published in Paris in 1922 and scores of Commercial Radio Stations appeared world-wide. Canadian Joseph-Armand Bombadier invented the Snowmobile, the British Broadcasting Service began domestic transmissions from 210 Marconi House and Captain Cyril Turner became the world's first Skywriter. Sharp-shooting Annie Oakley set the world record for breaking 100 clay targets in a row and Henry Berliner demonstrated his Helicopter to the US Bureau of Aeronautics.



By the end of 1922, New York Zoo was exhibiting the first Duck Billed Platypus to be seen in public and George Owen Squier would be blamed by elevator users throughout the world for the invention of Musak.

Tutenkhamen's Tomb was discovered by Howard Carter in 1923, the "Flying Scotsman" went into service and Garrett A Morgan invented the Automatic Traffic Light. Time Magazine first appeared on News Stands and Wembley Stadium opened, hosting the first FA Cup Final match, between Bolton Wanderers and West Ham United. Whilst suspended 40 feet above the ground, Houdini escaped from a Straight Jacket and The Disney Company was formed. The Popsicle was eventually patented by it's creator, Frank Epperson, who was now 29 years old. The BBC uses the chimes of "Big Ben" as an ident for the first time and the first Transatlantic Broadcast of a voice is transmitted between Pittsburgh and Manchester.

Chamonix, France, hosted the world's first Winter Olympics in 1924, the chilly year that the Ice Cream Cone Rolling Machine was patented by Carl Taylor of Cleveland and Clarence Birdseye invented Frozen Food. The Spiral Bound Reporters Notebook was invented and two General Electric Engineers, Chester W Rice and Edward Washburn Kellogg, (Rice and Kellogg – seriously), invented the modern Loudspeaker.



Gershwin presented "Rhapsody in Blue" for the first time at Carnegie Hall, New York and the IBM Corporation was founded by Thomas Watson. In June of this year, George Herbert Leigh Mallory of Mobberley, Cheshire (now home to ILFORD Imaging UK), and Andrew "Sandy" Irvine, set out with the intent of becoming the first to conquer Everest. Both men were to meet their fate during

the expedition and it remains a mystery to this day whether they reached the summit. It is hoped that the question may one day be answered if Irvine's Kodak Vest-Pocket Camera is ever recovered from the mountain. The world's most performed song, "Happy Birthday to You" was published this year by Claydon Sunny and the Ford Motor Company manufactures it's 10,000,000 car. Four Aircraft left Seattle in 1924 to complete the first successful round-the-world flight and the first photo-facsimile was transmitted across the Atlantic by radio. At the close of the year Edwin Hubble announced the existence of distant Galactic systems and the Kimberley-Clark Company gave us the disposable Facial Tissue.

At the beginning of 1925, the top-selling song was "Tea For Two" by Marion Harris, the first



film was shown on a British Air Aircraft and Scott Fitzgerald's "The Great Gatsby" was published. The Goodyear Airship "Pilgrim" made it's maiden flight, the first with an enclosed cabin, TASS was established as the official USSR News Agency and Walter Perry Chrysler founded the Chrysler Corporation.

George Burns and Grace Allen tied the knot early in 1926, a marriage that proved to be the longest lasting celebrity match of the Century, Norma Jean Mortenson Baker (Marilyn Monroe) was born, the Walt Disney Studios were formed and the Television is demonstrated by it's inventor, John Logie Baird. The Gas Refrigerator was patented, Norwegian Engineer Erik Rotheim invented the Aerosol Can, the National Broadcasting Company (NBC)



was created by the Radio Corporation of America (RCA) and Henry Ford announced the 8 hour day and the 5 day week.

In 1927, Pan American Airlines (PanAm) was formed, as was Gaumont, the British Film Corporation. His Master's Voice (HMV) introduced the first automatic record changer and the British



airline, Imperial Airways became the first to serve hot meals in-flight. Gerber became a household name when Dorothy Gerber invented Prepared Baby Food and The Ford

Motor Company stopped making the "Model T" this year. Fifteen million "Tin Lizzies" had been manufactured and 1927 hailed the introduction of the "Model A" Ford. Al Jolson starred in "The Jazz Singer", the world's first talkie and the Giant Panda was discovered in China. The "Grand Ole Opry" made it's first broadcast from Nashville, Tennessee and the Bread Slicer was invented by Otto Frederick Rohwedder of Ohio. Before this point it was impossible for anything to have been "the best thing since sliced bread".

Scotch Tape appears world-wide, marketed by the Minnesota Mining and Manufacturing Company (3M Corp), the first Audiotape was invented by Fritz Pfeumer and John



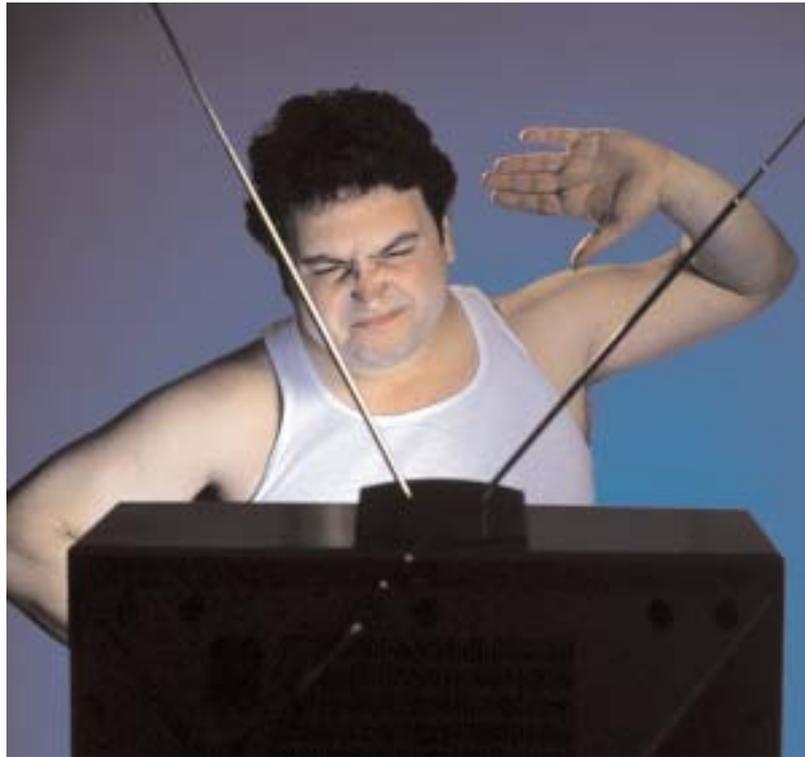
Logie Baird demonstrated Colour Television in 1928. A German Shepherd Dog named Buddy became the first Guide Dog for the Blind, Madame Tussauds opened in London and Amelia Earhart became the first woman to cross the Atlantic, but only as a passenger at this time.

Walter E Diemer accidentally invented Bubble Gum this year, while working as an Accountant for the Fleer Chewing Gum Company in Philadelphia and if you've ever wondered why Bubble Gum is Pink, the answer is simply that pink happened to be the "flavour" of the day. The Dodge Brothers and the Chrysler Corporation merged, General Electric opened the first Television Station at Schenectady, New York, and in Paris, Ravel's "Bolero" was publicly performed for the first time. Mickey Mouse made his debut on November 18th this year, appearing in Disney's "Steamboat Willy" in New York.

Buck Rogers and Tarzan both appear as Comic Strip characters in 1929 as did Popeye, who made his first appearance in the "Thimble Theatre" comic strip. February 14<sup>th</sup> this year witnessed the Saint Valentines Day Massacre and the world's first round-the-world Airship flight was completed. The first manned Rocket-plane flight was piloted by car maker Fritz von Opel, the Electroencephalogram (EEG) was invented by Hans Berger of Germany and the game of Bingo was invented by Edwin S Lowe.



Due to the increasing volume of motor vehicles in New York, the first



Red and Green Traffic Lights were installed in Manhattan in 1930, the year that Clyde Tombaugh discovered Pluto. Amy Johnson became the first woman to fly solo from England to Australia this year and Betty Boop first appeared in Max Fleischer's cartoon "Dizzy Dishes". The New York Times proclaimed that "TV would be a theater in every home" and the first non-stop Transatlantic flight between Europe and America took 37 hours to complete. Frank Whittle and Dr. Hans Von Ohain simultaneously co-invented the Jet Engine, Bette Davis arrived in Hollywood, under contract to Universal Studios and Chocolate Chips were invented by Ruth Wakefield of Whitman, Massachusetts.



**Duck appeared in his first cartoon and Piccard and Knipfer became the first men to fly into the Stratosphere, in the pressurized cabin of a Balloon. The first Infra Red Photograph was taken at Rochester, New York in the same year that Lumière launched their Filmcolor and Lumicolor Sheet and Roll films and ILFORD introduced the world to Hypersensitive Panchromatic film, later to become known as HP. Al Capone was finally convicted of Tax Evasion and sentenced to 11 years imprisonment at the end of the year and Public Toilets would be strewn forevermore with Arthur Scott's invention, the Paper Towel.**

## 1931-1940

**1931 saw the debut of Dracula on movie screens, the introduction of Alka Seltzer and the release of Cab Calloway's "Minnie The Moocher" which became the first million selling Jazz record. Schick offered the world the first Electric Shaver, Donald**

On February 9<sup>th</sup> 1932, the US Airship "Columbia" crashed during a storm at Flushing, New York. Amelia Earhart became the first woman to cross the Atlantic solo this year and Ford unveiled it's V8 engine. The Stereo Record was invented, Charles Lindburgh paid a \$50,000 ransom for his kidnapped Son and Piccadilly Circus is first lit by electricity. Goofy made his debut in

"Mickey's Revue" and the BBC began regular experimental television broadcasts.



By the beginning of 1933, it was possible to own Mayfair, take a chance and get out of jail free, with the invention of the game Monopoly. Polythene was discovered by Reginald Gibson and Eric William Fawcett, the first flight over Everest took place, Prohibition ended after 13 years in America and JR Wendell piloted the first aircraft to exceed 300mph at Glenview, Illinois. Another lasting invention this year was the "Cat's Eye", the brainchild of Yorkshireman Percy Shaw.

The Driving Test was introduced in Britain in 1934, the year that the Queen Mary was launched, Wallace Carruthers manufactured Polymer 66, the first Nylon and the first X-ray of an entire body was taken at Rochester, New York. Also this year, a recording of Beethoven's 5<sup>th</sup> became the first 33 1/3rpm Long Playing Record to be released and Joseph Begun invented the first Magnetic Tape Recorder.



Lazlo and Georg Biro went on to become household names when they invented the non-leak Ballpoint Pen in 1935.

Radar was patented by Sir Watson-Watt, the Richter Scale was invented by Charles Francis Richter and Beno Gutenberg and Gershwin's "Porgy and Bess" opened in Boston while Sir Malcolm Campbell set a new Land Speed Record of 301.337mph.



The New York herald Tribune was at the leading edge of technology in 1936, being the first Newspaper to store current issues on Microfilm and Billboard Magazine was about to publish the first "Hit Parade". Adolf Hitler introduced the "Volkswagen" designed by Ferdinand Porsche to the German public, the Hindenburg Airship made its maiden flight as did The Spitfire

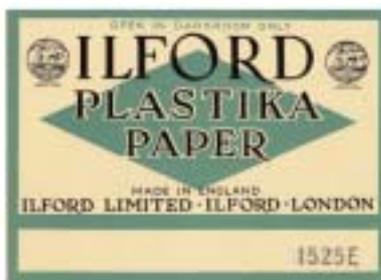
and "Peter and the Wolf" received its first public performance in Moscow. The first US broadcast of "hi-definition" television, with 343 lines, emanated from the Empire State Building and the BBC began broadcasting a hi-definition service in Britain. Life Magazine appeared on News Stands and RCA broadcast the first television variety show in America featuring dancing, a film on locomotives, the Bonwit Teller Fashion Show, a monologue from Tobacco Road and Comedy.

Disaster struck at the beginning of 1937 when LZ 129, the Hindenburg Airship exploded as it approached its moorings at Lakehurst, New Jersey. The Airship had just completed the first of 18 scheduled Transatlantic flights from Fankfurt to Lakehurst. JRR Tolkein published "The Hobbit" this year, SPAM is invented by Hormel Meat Packaging and on the West Coast of America,



the Golden Gate Bridge opened in San Francisco. Animation was certainly popular this year, with Walt Disney's "Snow White" becoming the first feature length sound and colour animation and Daffy Duck, Elmer J Fudd and Petunia Pig making their debut for Warner Bros.

The first public demonstration of Colour Television took place in London in 1938, the year that Roy J Plunkett invented Teflon and the Owens Corning Corporation invented Fibreglass. Superman appeared for the first time and the first Xerox copy was made. The Broadcasting Industry was the first telecast of an unscheduled event, which was a fire, broadcast on WZXB, New York and Orson Welles causes panic across the USA with his Mercury Theater broadcast of HG Wells' "War Of The Worlds" on October 30<sup>th</sup> 1938.



Borley Rectory, Britain's most haunted house was destroyed by fire early in 1939, ILFORD launched its PLASTIKA photographic paper and a range of films. HP2 replaced the original Hypersensitive Panchromatic film,

FP1 was introduced, quickly superceded by FP2 and Selo and Selochrome films were launched. The "Dixie Clipper" became the first Commercial Aircraft to fly from the USA to Europe, the Batman Comic was launched this year and the first televised Heavyweight Boxing match

created by William Hannah and Joseph Barbera. "In the Mood" rocketed to Number One on the Hit Parade, hi-definition colour television was demonstrated, Walt Disney released "Fantasia" and the Local Defence Volunteers, later known as the Home Guard is formed in Britain.



between Max Baer and Lou Nova took place. While War was breaking out in Europe the first Nylon Stocking went on sale in America at a store in Wilmington, Delaware. British Imperial Airways and British Airways merged this year to form the British Overseas Air Corporation (BOAC) and the Physical Review published the first paper to deal with "Black Holes".

Rationing began in Britain in 1940, with Bacon, Butter and Sugar being the first rationed items. ILFORD launched the world's first true MULTIGRADE photographic paper, Frank Sinatra debuted in Indianapolis with the Tommy Dorsey Orchestra and Glenn Miller recorded "Tuxedo Junction". Disney released their 2<sup>nd</sup> full feature, Pinocchio this year and "Tom and Jerry" were

## 1941-1950

**Glenn Miller's popularity continued to rise through 1941 and he was presented with the world's first Gold Record for his hit "Chattanooga Choo Choo" this year. Captain America appeared for the first time, the Television Remote Control, thanks to Robert Adler, appeared down the back of seats worldwide and Disney's Flying Talking Elephant, Dumbo was released. Hot on the heels of the cartoon Pachyderm Disney released the children's classic "Bambi" in 1942, the year that the first Cross Country flight by Helicopter was made, the first Nylon**

Spotting the movements of enemy ships.  
Mapping the invasion beaches. Plotting  
German gun sites and countering  
the flying bomb. These  
are just a few of the  
grand jobs done by  
Ilford Film.  
When peace comes, Ilford  
photographic materials,  
better than ever before, will  
come back into general use.



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**Parachute Jump took place, John Atanasoff and Clifford Berry built the first digital computer (the first electronic analogue computer, the "differential analyzer" was invented back in 1930 at MIT in Boston by Vannevar Bush) and ILFORD launched FP3 and HP3 plates.**

In 1943, Frank Sinatra debuted on the radio show "Your Hit Parade", Chicago's new Subway system was officially opened by its Mayor, Ed Kelly and pioneering Oceanographer Jacques-Yves Cousteau and Emile Gagnan co-invented the Aqualung. The Slinky was also invented this year and started slithering its way down stairs all over the world, thanks to Richard James. The first Open Heart Surgery was performed at John Hopkins Hospital in 1944 and sadly, Glenn Miller was lost over the English Channel. Grace Hopper, responsible for the creation of the COBOL programming language coined



the term "Bug" this year when her team found a moth, trapped in a relay in their Mark II computer, was the cause of a malfunction. The Moth was removed and taped into the log book, which now resides at the Smithsonian Institute. The term "Bug" has now come to mean any computer related error.



In 1945 Lauren Bacall married Humphrey Bogart, Adolf Hitler committed suicide, Winston Churchill resigned as Prime Minister and Vannevar Bush, co-inventor of the digital computer, proposed a program language known as Hypertext. Arthur C Clark proposed relay satellites in Geosynchronous orbit this year, Sunscreen was invented by Benjamin Green in the US and the first Atomic Bomb was detonated. A US Army Bomber crashed into

the 79<sup>th</sup> floor of the Empire State Building in 1945, killing 14 people and Atomic Bombs were dropped on Hiroshima and Nagasaki. All hostilities ended, a new World Air Speed record of 606mph was set by RAF Pilot HJ Wilson and the Microwave oven was invented by Percy Spencer.

The first commercially designed Helicopter was undergoing tests at Bridgeport, Connecticut in 1946 and the first US Rocket leaves the Earth's atmosphere, 50 miles up. Five inmates died during a revolt at Alcatraz and the USA filed a patent for an H-Bomb. Weight Watchers was formed this year, SW Bell inaugurated a commercial Mobile Telephone Service in St Louis and the first long-distance car-to-car telephone conversation took place. Although the technology existed for Cell Phone Networks in 1946, it would be another 40 years before there were powerful enough computers to operate the complex switching systems at the speeds necessary to make it viable. By the end of the year the US launched a Rocket which successfully attained an altitude of 100 miles. Willard F Libby invented the Carbon Dating process this year and the 2<sup>nd</sup> Cinemascope film "Scudda-Hoo Scudda-Hay" began production and was the first of Marilyn Monroe's career.



In 1947 Britain Nationalised its Coal Industry and ILFORD introduced their first Camera. "The Witness" failed to make an impact, largely due to the shortage of high quality lenses. A second attempt met with more success and "The Advocate" camera retailed for £16. Across the Atlantic EH Land, the founder of Polaroid demonstrated his Instant Developing



Camera and the first Zoom Lens was demonstrated in New York while the British/Hungarian scientist, Dennis Gabor had developed the theory of Holography. The International Monetary Fund began operating this year, BF Goodrich manufactured the first "tubeless" tyre, Edward Lowe invented Cat Litter, a by-product of Clay Mining and Flying Saucers were sighted over Mount Rainier by pilot Ken Arnold. Earl Silas Tupper patented a food storage sealing system, now known all over the world as Tupperware, Kon Tiki crashed onto a Polynesian Archipelago Reef in 1947, the year that Princess Elizabeth married Duke Philip Mountbatten, the Polio Vaccine was developed by Jonas Salk and the Transistor was invented, by Bardeen, Brattain and Shockley at Bell Laboratories. Britain continued its nationalization in 1948 with the Railways and the National Health Service was formed. "Candid Camera" appeared on television, The Frisbee was invented by Walter Frederick Morrison and Walter Francioni, the first Polaroid camera went on sale for \$89.95 and the first Radio Controlled Plane was flown. ILFORD launched its first colour film "D" this year and the Borough of Ilford presented Princess Elizabeth with a specially commissioned ILFORD Advocate Camera, costing £340. That particular camera was stolen, but later recovered, when it was sent to be repaired. Velcro was invented this year, the Magnetic Tape Recorder was developed by Wireway and the first "stored" computer program was run on "Manchester Mark 1".

The British Steel and Iron Industries were Nationalised in 1949, the year the first Laundrette opened in Queensway, London. The NATO treaty was signed this year, RCA introduced the 7inch 45rpm record and the musical "South Pacific" was first performed. The following year, India became a Republic, James Wright's Silicone and Boric Acid compound, invented in 1943, was renamed Silly Putty and the FBI's "10 Most Wanted" fugitives program began. Also in 1950, the Phototransistor was invented at



Murray Hill, New York, Ralph Schneider gave us the first Credit Card, the "Diners Club Card", Elizabeth Taylor got married for the first time, wedding Conrad Hilton Junior, and the first Transatlantic Passenger Jet trip took

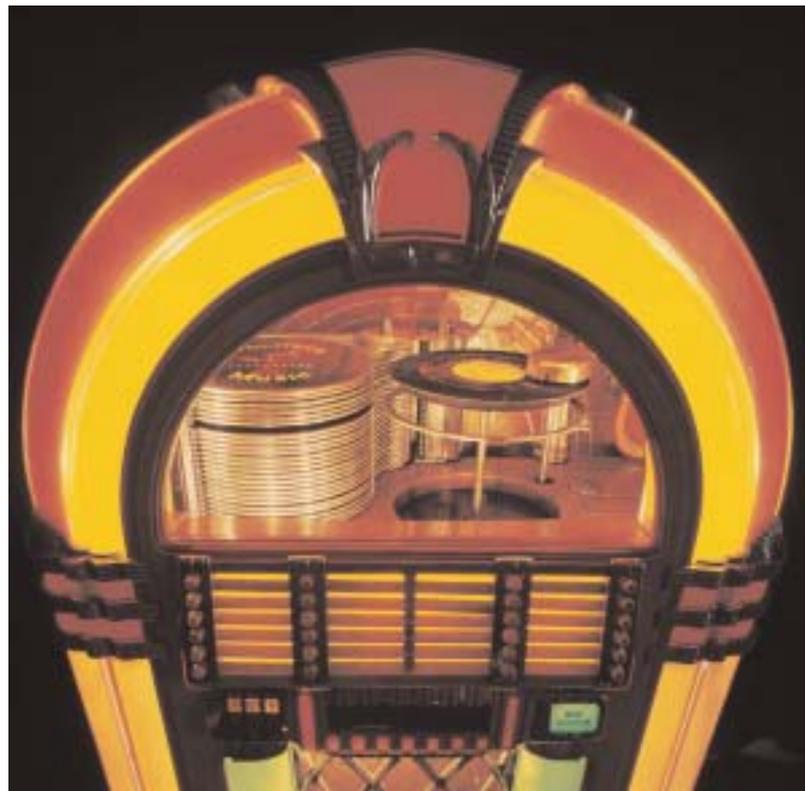
off. The world's first Kidney Transplant took place in Chicago, Disposable Diapers (Nappies) were the brainchild of Marion Donovan in the US, the first typesetting machine was demonstrated, dispensing with metal type, and Snoopy was introduced to the world when "Peanuts" took to the pages of 9 Newspapers.

## 1951-1960

**The US Census Bureau took delivery of the first commercial Computer, UNIVAC 1 in 1951,**

**JD Salinger's "Catcher in the Rye" was published and Disney's "Alice in Wonderland" delighted audiences for the first time. Eastman**

**Compound #910, known today as Superglue was invented, CBS Television ran the first episodes of "I Love Lucy" and Elizabeth Taylor divorced Conrad Hilton Junior only to marry Michael Wilding the following year.**



**Taylor and Wilding commenced married life in the same year that Sun Records was established, the "Big Bang" theory was proposed and Mr Potato Head became the first toy to be advertised on television.**



Clarence Birdseye began marketing frozen peas in 1952, Mad Magazine became essential reading and the first Video Recording on Magnetic Tape was made in Los Angeles, California. The humble Bar Code (US Patent No 2,612,994) was invented by Joseph Woodland and Bernard Silver and the first "diet" drink went on sale. ILFORD introduced HPS plates and the world's longest running Stage Play, Agatha Christie's "The Mousetrap" opened at the Ambassadors Theatre in London on November 25<sup>th</sup>, starring a young Richard Attenborough. At the time London was suffering "killer fogs" and the word Smog was introduced to the English language. The New Musical Express (NME) published the first British Singles Chart and Bette Nesmith, the Mother of Michael, who would later become a Monkee, invented Typewriter Correction Fluid, allegedly after many mistakes were found in her typing, John Hetrick invented the Automotive Airbag, Paul M Zoll invented the Cardiac Pacemaker and the first transistorized Hearing Aid went on sale in New York.



Cinemascope made its debut in 1953 when "The Robe" was released, Winston Churchill was knighted, New Zealander Edmund Hillary and Sherpa Tensing conquered Everest, reputedly using an ILFORD camera through their expedition, and the Coronation of



Elizabeth II took place at Westminster Abbey. In New York, the first passenger service Helicopter went into operation and TV Dinners became available. Piltown Man, discovered in Jersey in 1912, was proved to be a hoax this year, Michelin introduced the Radial Tyre and Chuck Yeager reached Mach 2.43 in the Bell X-1A Rocket Plane.

An invention that would rock the world appeared in 1954 when Leo Fender produced his first "Stratocaster", a definitive design that is much imitated to this day. Elvis Presley's debut single, "That's All Right" was released this year,



Bill Haley and the Comets were set to "Rock Around the Clock", Bell Laboratories in New York announced the invention of the Solar Battery and Ray Kroc opens the first MacDonalDs. Teflon, invented in 1938, first appeared on non-stick pans this year, Oral Contraception was invented and RCA manufactured the first "miniature" colour television, which featured a 12.5 inch screen and sold for \$1000.

The game of Scrabble first appeared in 1955, Disney opened their Disneyland resort in Orange County, California and released "Lady and the Tramp". A Solar powered car was demonstrated in Chicago, RCA demonstrated the first Synthesizer and the Hovercraft was patented by Christopher Cockerell.

In 1956, Britain abolished the Death Penalty, Play-Doh was invented, a certain John Winston Lennon met Paul McCartney for the first time and the world's very first commercial Video Tape Recorder was demonstrated by Ampex.

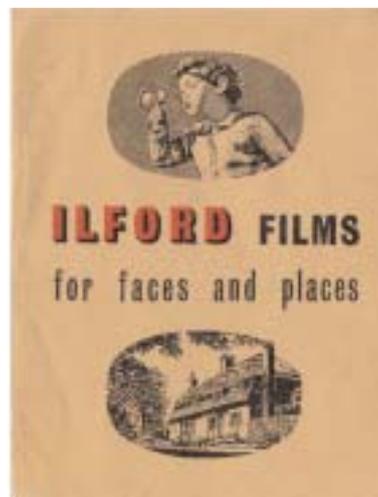
The first Electric Watch was produced in 1957, the year that the Wham-O Company made the first Frisbee and Hornby launched

Scalextric at the Harrogate Toy Fair. Elizabeth Taylor divorced for the second time, subsequently marrying Mike Todd, the first Electric Portable Typewriter went on sale and Elvis was drafted for National Service this year.

Disaster struck the Ford Motor Company with the launch of "The Edsel", named after Henry Ford's only son. The 6000 surviving cars are now cherished classics. Gone are the days when Edsel meant "Every Day Something Else Leaks". Whilst out walking in 1948, Swiss Engineer George de Mestrel found Cockleburs clinging to his Jacket and his Dog.

This sparked an idea that would take the next eight years to develop but resulted in the patenting of Velcro in 1957. Incidentally, the name de Mestrel chose for his invention is derived from a combination of the two French words, Velour and Crochet, meaning Velvet and Hook.

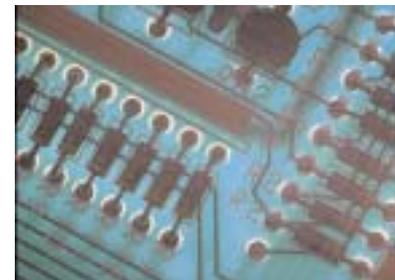
1958 saw Elizabeth Taylor divorcing yet again, although she would not remarry until the following year, Parking Meters were introduced in the UK,



the Skateboard was invented by Bill and Mark Richards, although it would not catch on for many years and the Hula Hoop became a smash hit for its inventors Richard Knerr and Arthur "Spud" Melin. The Modulator/Demodulator



(Modem) was invented, Gibson patented their "Flying V" guitar and the Integrated Circuit Board was invented independently this year by Jack Kilby and Robert Noyce. Seven Manchester United Players died in the Munich Air Disaster and "Laika", the dog was killed when Sputnik 2 burnt up while re-entering the Atmosphere.



NASA was inaugurated this year and the first Radio signal to be broadcast from space was transmitted. In Charlotte, North Carolina, the world's first Colour Video recording was made and in Denmark, Lego was invented, named from the two Danish words, Leg Godt, meaning "play well".

Luna 1 became the first craft to truly leave the Earth's Atmosphere in 1959, the same year that "Sleeping Beauty" was released by Disney and Swedish Engineer Nils Bohlin invented the Seat Belt for Volvo.





The Barbie Doll first went on sale this year and to date over 800,000,000 have been sold. In real life, Barbie would be a 7 foot tall woman with a 48 inch bust line and 10 inch waist. Elizabeth Taylor married Eddie Fisher, the Guggenheim Museum opened in New York City, designed by Frank Lloyd Wright and "The Sound Of Music" opened on Broadway. The first colour photograph of Earth was received from space and Sony introduced the 8-301 Transistor Television.

UFO's are sighted by three Californian Highway Patrolmen in 1960, the Halogen light was invented, the Flintstones became the first Prime Time animation show and Playboy opened the doors of its first Club in Chicago. ILFORD launched HP4 film this year, along with Ilfacolor film, Ilfochrome 32 Transparency film, Ilfochrome 25 8mm Cine film and later, Ilfacolor films and papers. The first patents for Lasers were granted to Arthur Schawlow and Charles Townes and Granada Television broadcast the first episode of Coronation Street.

## 1961-1970

**The Beach Boys first performed together in 1961 and The Beatles appeared at The Cavern for the first time. Bob Dylan, born Robert Zimmerman, made his debut at Folk City in Greenwich Village, "101 Dalmations" was released and work commenced on the construction of the Berlin Wall.**

In 1962, the doors of the very first K-Mart opened and MIT sent a Television signal via satellite for the first time. Marilyn Monroe was found dead this year, the Audio Cassette was invented in the Netherlands by Phillips and Yukio Horie of the Tokyo Stationery Company invented the Fibre-tipped pen.



ILFORD introduced its famous Ilfochrome colour reversal system and Ciba Geigy acquired Lumière. In 1963 the US launched the first communications satellite, SYNCOM 1, The Beatles were on tour, supporting Helen Shapiro, prior to the release of their debut Album "Please Please Me" and Alcatraz closed it's doors for the last time. The first Bond film, "Dr No" was released this year and bad boys of Rock 'n' Roll, The Rolling Stones, made their first television appearance.

In London, the first Home Video Recorder was demonstrated and in the US, Zip Codes are introduced by the Postal Service. Ciba Geigy approached ILFORD this year, with a buy-out offer. On August 28<sup>th</sup>, Martin Luther King Junior made his famous

Finer colour in transparencies with new  
**ILFOCHROME 32**

Such vivid colour—and yet so natural! This is new transparency film—the colour-reversal film that is fast enough to use in all cameras.

For astronomical 22" for 20-exp. camera, 24" for 35-exp. camera including use of processing.  
Duplicate Colour Transparencies: 1" each; 2" each for 2-10 from same original.  
and broadcast negatives cut to fit each.

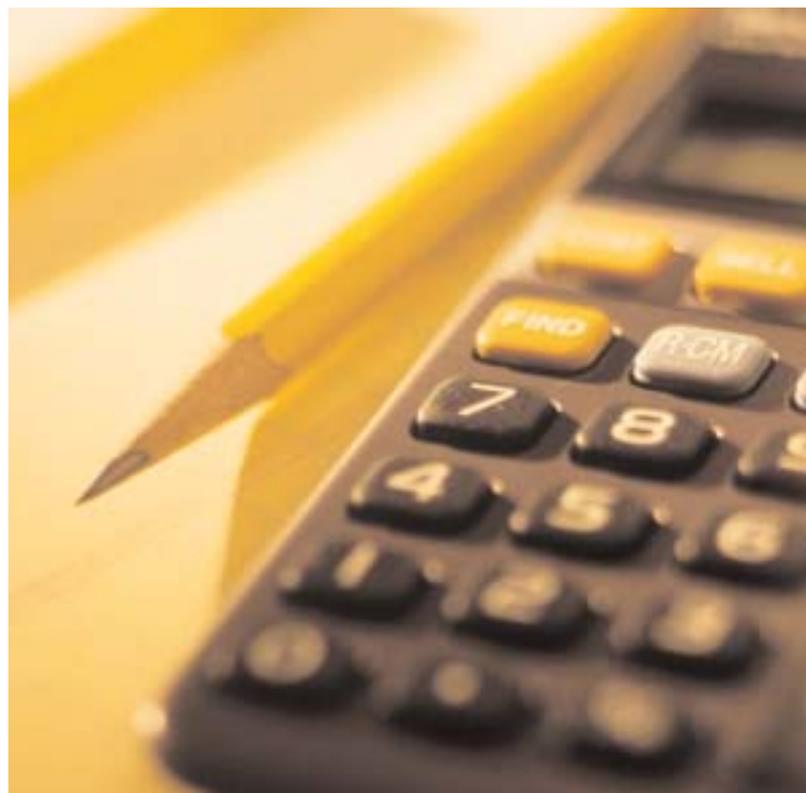


Living colour with

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Unmatched definition; rich yet natural colour.  
Only 25¢ per 25-ft. spool (including processing).

"I have a dream" speech and sadly three months later on November 22nd John Fitzgerald Kennedy was Assassinated in Dallas, Texas.



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Why does a top photographer prefer one film to another? Obviously because he knows it—and has proved it—and depends on it after eliminating others by test to find the best. Film, model, lighting, camera, properties, all are relative, interdependent, and subservient to the photographer's need. Not least of his needs is dependable film. Top men choose ILFORD film.



**ILFORD FP3 & HP3**

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killing most marine life along the whole of the south coast of Britain and the Normandy shores of France. The ensuing fire burnt for 12 days. 400 million viewers tuned in to see The Beatles "Our World" television special, which featured the live performance of "All You Need Is Love" and "The News At Ten" was seen for the first time on British television. The Light Emitting Diode (LED) was invented this year and the first handheld Calculator, which would later use an LED Display, was invented by Texas Instruments' employees Jack Kilby, who had invented the Integrated Circuit 8 years earlier, Jerry Merryman, and James Van Tassel. The Calculator used a Thermal Printer to show its 12 digit calculations. The Move's "Flowers In The Rain" was the first song broadcast by BBC Radio One, which launched this year, Etch-A-Sketch began selling in Toy Shops throughout the world and Disney's animation of Rudyard

Elizabeth Taylor was granted her fourth divorce and celebrated her fifth marriage, this time to Richard Burton, in 1964 and the Great Train Robbery was staged between Leighton Buzzard and Tring. The first BASIC program was run on a computer at Dartmouth College, Hanover, New Hampshire and Mary Poppins was released, introducing us to the word Supercallafrajalisticexpeallidocious. Bewitched, The Man from Uncle and The Munsters all appeared on television for the first time this year, "Fiddler on the Roof" opened on Broadway, the "Star of India" diamond was stolen from New York and the first "Pink Panther" cartoon was screened.

The Who made their first television appearance in 1965, Astroturf and the Soft Contact Lens were invented, Cooper and Conrad completed 12 Earth Orbits in Gemini 5 and Winston Churchill's Funeral took place. Stanley Weston created a "Doll for Boys" known as "GI Joe" in America. By the time Joe reached



Europe, he had become "Action Man". Kevlar, which is 5 times stronger than the same weight of steel and commonly used in Bullet-proof vests, was invented. The following year, The Cavern Club closed its doors, and television gave us Batman, Star Trek and The Monkees.

Disaster struck Apollo 1 in 1967 killing all three Astronauts, Grissom, White and Chaffee and The Torrey Canyon struck the Seven Stones Reef off the South coast of Cornwall, which ripped open six tanks and causing the ship to lose its entire cargo of 31,000,000 Gallons of Crude Oil

Kiplings "The Jungle Book" appeared in Cinemas. Dr Christian Barnard performed the first Human Heart Transplant and the Residential Smoke Alarm was developed.

The First Bank of Philadelphia installed the world's first Automatic Telling Machine (ATM), the Computer Mouse was invented by Douglas Engelbart, the first Boeing 747 "Jumbo Jet" rolled out and Russia flew Supersonic with "Concordski", the Tupelov TU-144 all in the course of 1968. Concorde itself, made its first Test Flight in the following year in 1969. Ciba Geigy became the

sole owner of ILFORD Limited, six years after their initial approach, the first Human Eye transplant was performed this year, the Bar Code Scanner was invented, 16 years after the Bar Code itself, the QEII set out on her maiden voyage to New York and the Woodstock Festival took place. Apparently, if you can remember the Summer of '69, you weren't there! Sony invented the Video Cassette Recorder (VCR), The Jackson Five made their first Television appearance on The Ed Sullivan show and the Internet was officially invented by the Advanced Research Projects Agency (APRA) at the US Department of Defense.



Compact Disk, Fibre-Optics and the Daisy Wheel Printer were invented, Alan Shugart invented

## 1971-1980

**The first Chatrooms started on appear on the Internet in 1971 and E-mail was invented by Ray Tomlinson. Mount Etna erupted in Italy, the Dot-matrix printer was invented, the Liquid Crystal Display (LCD) and the Food Processor came into existence and the Microchip was invented by Faggin, Hoff and Mazor. Disneyworld opened in Florida and on the 15<sup>th</sup> February this year, the British Pound Sterling became Decimal.**



On July 20<sup>th</sup> 1969, Neil Armstrong, Edwin "Buzz" Aldrin and Michael Collins landed on the Moon. The following day at 2:56:15 am (GMT), Armstrong became the first Man to walk on the Moon. Legend has it that "One small step for Man, one giant leap for Mankind" had originally been scripted by NASA as "One small step for a man", but the little "a" had been lost in transmission.

The Boeing 747 "Jumbo" took to the air on its maiden flight in 1970. This was the year that the first Digital Wristwatch, invented by John M Bergey appeared, James T Russell invented the



the Floppy Disk, International Business Machines Corporation (IBM) announced the 370 Computer and Disney's "Aristocats" was released. The Post-it Note was invented by 3M Corporation's Art Fry and Spencer Silver, although it would be 10 years before the product got to market. Fry wanted to solve a nagging problem. He needed a method to bookmark pages in his Church Hymnal, which would neither damage the pages or fall out. Using an adhesive developed by Silver, which was strong enough to adhere but left no residue when removed, he applied it to the edge of a piece of paper – problem solved!

1972, International Book Year, was the year that the Word Processor was invented. Bernstein and Woodward published their first article, exposing Watergate and the Goodyear Blimp took its maiden flight.

The Waltons and MASH were prime-time television viewing, Pong, the first Video Game was invented by Nolan Bushell and NASA announced the development of the Space Shuttle Program.





Rhapsody becomes the first song to be accompanied by a Pop Video. Within a short space of time, Elizabeth Taylor redivorced Richard Burton and married John Warner for her 7<sup>th</sup> Toaster. Apple debuted their first Personal Computer, the Inkjet Printer was invented and the "Pet Rock", literally no more than a Beach Pebble, was invented by Gary Dahl. Cabbage Patch Dolls, complete with Birth Certificates, are invented by Xavier Roberts this year and the VHS video cassette was introduced by the Victor Company of Japan Limited (JVC).



Ethernet Computer Networking was invented in 1973, the year Comet Kohoutek was discovered and Bar Coding appeared for the first time. The first Cellular Phone, weighing 2lb went on the market and two Scientists in the US, Stanley N Cohen and Herbert W Boyer were responsible for the discovery of Genetic Engineering. Elizabeth Taylor, following a reasonably long marriage by her standards, divorced for the 5<sup>th</sup> time in 1974, Hungarian Architect Ernő Rubik frustrated the world with his invention that became known as "the Rubik's Cube"

and the Safety Airbag, invented by John Hetrick in 1952, was made available by General Motors. This was the year that ILFORD introduced its Ilfospeed range of photographic papers.

The Rocky Horror Show, written and created by Richard O'Brien, took to the stage of the Belasco Theater in New York for the first of 45 performances in 1975. Elizabeth Taylor decided to remarry Richard Burton, the Sex Pistols made their debut, Phone Cards and the Laser Printer were invented. Optical Character Recognition (OCR) was created by Ray Kurzweil and the first Digital recordings were made. Hypertext Mark Up Language (HTML), the wizardry behind the majority of Internet Pages, was also invented this year.

The world was shocked to hear that Elvis Aaron Presley had died in 1977, the year that Concorde made its first landing in New York. The "Gossamer Condor" made the first "man-powered flight" this year, the first TRS-80 Model 1 computer was sold, Queen Elizabeth II celebrated her Silver Jubilee and the Sports Bra was invented. In the following year 1978, the first Microchip was patented by Texas Instruments, Red Rum won his 3<sup>rd</sup> consecutive Grand National at Aintree, Liverpool, Velcro appeared on the



In 1976, Concorde made its first commercial flight, ILFORD launched its new HP5 film and Disneyworld greeted its 50 millionth guest. The first Quadrophonic Soundtrack appeared on the movie "Ladies and Gentlemen, The Rolling Stones" and Queen's Bohemian



market, 21 years after it was first patented, the Karaoke Machine was invented, developed from a device invented in 1972 by Japanese Drummer Daisuke Inoue,

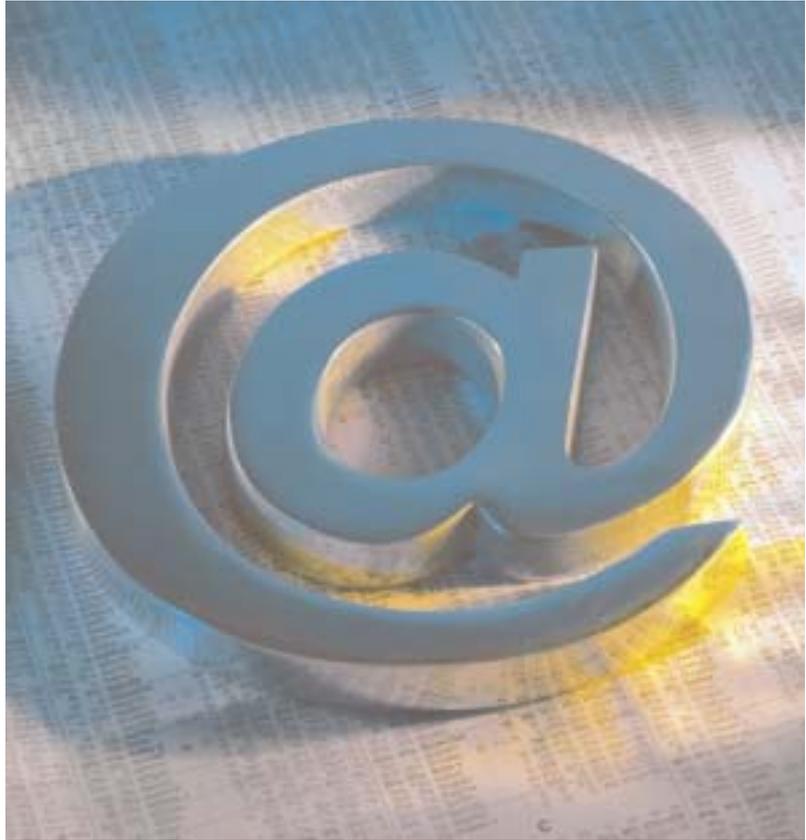


and Star Wars was a smash hit at the Cinema. Magnetic Resonance Imaging (MRI) was invented as was Human In Vitro Fertilization (IVF) and, following the rationalization of products and facilities by Ciba-Geigy, ILFORD became responsible for their Photographic Group Worldwide. Incidentally, Karaoke translated from Japanese means "Empty Orchestra".

1979 was the International Year of the Child. In the USA and on April 20<sup>th</sup>, US President Jimmy Carter was attacked by a Rabbit during a fishing trip in Plains, Georgia.



The rabbit, which was possibly fleeing a predator, swam toward his boat, "hissing menacingly, its teeth flashing and nostrils flared." President Carter swatted at the normally docile creature with a canoe paddle, which apparently scared it off. Trivial Pursuit became the idle pursuit of many this year, the first commercial Cell Phone was invented, Cheerios graced our Breakfast tables and Sony invented the Walkman.



The question on everybody's tongues in 1980 was "who shot JR"? The Blues Brothers Movie appeared on Cinema screens, In-line Skates or Roller-Blades were invented by 20 year old Scott Olson, the 3.5 inch Floppy Disk was invented and the world mourned the sudden loss of John Lennon. The Post-it Note eventually made it to market, having spent nearly 10 years in development.



## 1981-1990

In 1981, the first Space Shuttle, Columbia, successfully returned to Earth following her maiden voyage. The world's first Solar Powered Aircraft the "Solar Challenger" crossed the English Channel, Ioannis V Yannas and John F Burke invented Synthetic Skin, Prince Charles married Lady Diana Spencer, MS-DOS was invented by Microsoft, IBM introduced the Personal Computer Disk Operating System (PC DOS) version 1.0 and MTV was launched. Lumière, who were acquired by Ciba-Geigy in 1962, eventually relinquished their Corporate name in 1982 and became known as ILFORD France and Sony demonstrated the





**world's first Digital Camera this year and also introduced the world to the Camcorder, the first handheld Video Camera which required no "umbilical" cord. The following year saw the Doobie Brothers split up and the Falklands War beginning.**

1982 was also the year that 10 Oryx, then extinct in the wild, were released into their natural habitat in Oman, Elizabeth Taylor divorced for the 7<sup>th</sup> time and Diet Coke was invented. Disney's visionary EPCOT Center opened this year in Orlando, Florida. EPCOT was originally an



acronym for the "Experimental Prototype Community of Tomorrow".

In 1983, the final episode of MASH was aired. It was seen by 125 million viewers. Compact Disc recordings were launched jointly this year by Phillips and Sony, the Radio Shack Corporation offered the world's first Laptop Computer, Cabbage Patch Kids went on sale for the first time and the oldest surviving Human Skeleton, aged 80,000 years was discovered in Egypt.

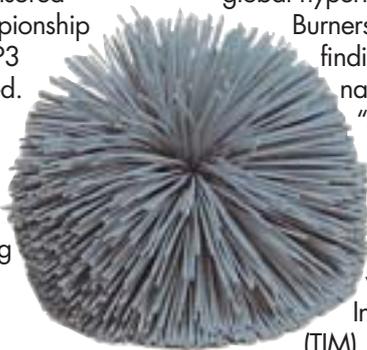
The world breathed a sigh of relief in 1984, when Orwell's predictions proved to be wrong, the year that Alec Jeffreys perfected the DNA Fingerprinting technique. Apple Computer Inc. unveiled its first Macintosh computer, named after a type of apple. The company logo, a multi-coloured apple with a bite taken out of it is a reference to the Biblical story of Adam and Eve, in which the apple represents the fruit of the "tree of knowledge". Coca-Cola announced it would change its secret formula in 1985, but within a few months the drinks giant brought back the 99 year old secret. A US and French Expedition located the wreckage of the Titanic this year, off the coast of Newfoundland and Desktop Publishing is invented. Windows was invented by the Microsoft Corporation and "Live Aid" rocked the world for charity in '85, with simultaneous concerts in London, Philadelphia, Moscow and Sydney.



On the 21<sup>st</sup> April 1986 it was one million days since the foundation of Rome in 753BC. Fuji introduced the first Disposable Camera this year, ILFORD sponsored Radio One DJ Mike Smith in the UK Touring Car Race Championships and the Space Shuttle "Challenger" crashed, killing all seven Astronauts onboard.



1987 introduced the world to Homer, Marge, Bart, Lisa and Maggie Simpson, when the show first aired this year. The Simpsons are now the world's longest running cartoon series. Nintendo launched the "Game Boy", Digging began in England and France, marking the start of construction work for the Channel Tunnel, Laser Vision Correction was invented by Stephen Trokel in the US, Scalextric released a Model of the ILFORD sponsored Touring Car Championship vehicle and the MP3 format was invented. The Koosh Ball appeared in stores this year. It was originally invented to help teach young children to catch.



A record breaking Banana Split appeared in Selangrove, Philadelphia in 1988. The world's largest "Split" measured 4.55 miles in length, although no-one calculated the total time it took to eat the massive confectionery. ET, The Extra-Terrestrial was released on home video, with 14 million customers pre-ordering their copies and the Super Soaker water gun was invented by Lonnie Johnson, an Aerospace engineer, which he originally called the "Power Drencher". This was the year that a bomb, aboard PanAm Flight 103, exploded in mid-air over the quiet Scottish Town of Lockerbie. Eight years earlier, in 1980, a young software engineer working for six months at CERN, the European Laboratory for Particle

Physics, in Geneva, developed a small piece of software that could, as he described in his own words, keep "track of all the random associations one comes across in real life and brains are supposed to be so good at remembering but sometimes mine wouldn't." He called this software "Enquire Within Upon Everything", a title borrowed from a Victorian Encyclopedia, inventing his "global hypertext system". Tim

Burners-Lee then set about finding a more suitable name for his invention. "Mine of Information" (MOI), was considered, but was thought to be egotistical as was "The Information Mine" (TIM). Another consideration was "Information Mesh" but Burners-Lee thought this sounded too much like "mess". In 1988, he eventually decided upon 3 letters that he had used to identify a WYSIWYG (what you see is what you get) hypertext browser/editor that ran in the NeXTStep environment, found a name to suit the acronym, and gave birth to possibly the biggest and most used inventions of the 20<sup>th</sup> Century, the World Wide Web.

In 1989 IM Pei's pyramidal entrance to the Louvre opened in Paris and an Earthquake in San Fransisco, California killed 67 people. Jaron Lanier, a Computer Scientist invented "Virtual Reality", James Fisher and Oliver Macleod-

Smith of Johannesburg, South Africa invented the "Snake Board", best described as a "Universally Jointed Skateboard" this year and the rare conjunction of Venus, Mars, Uranus, Neptune, Saturn and the Moon known as a Stellium, a conjunction that involves three or more planets, took place,



which some might argue, influenced the demolition of the Berlin Wall. The next such Stellium will not take place for another 13 Centuries, in the year 3370.

Nelson Mandela was released from Robben Island after 27 years of captivity in 1990. In a bay not far from Cape Town, South Africa, the Island was once the home to lepers, the mentally insane, thieves, and political prisoners. The prison eventually closed after nearly 400 years use as a place of banishment, exile, isolation and imprisonment, the island was declared a World Heritage site and it is now a tourist site, with boat trips run by ex-guards and tours conducted by ex-prisoners. This was the year that MacDonalds opened their first restaurant in Russia, which was also the largest in the world, Digital Television was invented and rioting began in London in protest over the newly introduced "Poll Tax". ILFORD announced the Digital Photo Imager (DPI) this year at the Photokina Exhibition, held in Cologne, Germany hailing the dawn of the Companies venture into the new technology of Digital Imaging. The Hubble



Telescope was launched and sent its first message from space, Iraq invaded Kuwait and the K'nex Toy Construction kit was invented by Joel Glickman.



## 1991-2004

**In the early hours of January 16<sup>th</sup> 1991, Operation Desert Storm was launched to liberate Kuwait from the Iraqi invasion. The "Birmingham 6" were released, following an appeal, after 16 years of imprisonment, and the first Internet Search Engine appeared. Elizabeth Taylor Married for the 8<sup>th</sup> time,**

**this time to Larry Fortensky and the USSR officially ceased to exist. Kodak introduced a Digital Camera which stored images on a Floppy Disk around this time, although the history of Digital Photography is a little vague the average cost of Digital Camera Equipment at this time was in region of \$18,000.**

In 1992, Scientists in Sandwich, Kent were trying to "come up" with a treatment for Angina. What they eventually developed became known as Viagra. The General Synod voted for the Ordination of Women in the United Kingdom this year and Sony introduced the Mini-Disc.

The Digital Video Disc (DVD), now renamed the Digital "Versatile" Disc was invented in 1993, the year that the European Union came into existence. Intel invented the Pentium Processor, Apple Computer Inc invented the Personal Digital Assistant (PDA) this year, naming it "The Newton", maintaining their commitment to fruit based product

names and Adobe introduced the world to the Portable Document Format (PDF) file. H Ty Warner created a range of 12 bean bag toys this year which took the world by storm. He called them "Beanie Babies", a phenomenon that mushroomed into a multi-million dollar business.

Los Angeles, California was rocked by an Earthquake which killed 60 people in 1994 and the Church of England ordained the first of 33 Women Priests. The world's largest Lollipop was made in Denmark, weighing 3,011lb and Nelson Mandela was sworn in as South Africa's first Black President. In Britain, the "National Lottery" was launched and the scourge of the Internet, Spam, was invented by two Attorneys, taking its name from Monty Python's homage to the processed meat invented by Hormel Meat Packaging in 1937. ILFORD launched the "Printasia Digital Imaging System" in 1994. The system included a Computer, Scanner, Printer and Image Manipulation software but suffered due to the constantly changing technology of computers and peripherals at the time, which led to its demise.

The financial house of Barings collapsed after suffering huge losses made by Trader Nick Leeson in 1995 and JavaScript was invented. An Earthquake in Japan killed more than 5,000 people, the criminal trial of OJ Simpson opened in California and a Nerve Gas Attack in a Tokyo subway killed eight and injured thousands. In May of this year the US Space Shuttle Atlantis successfully docked with the Russian Space Station Mir and the Los Angeles Jury finds OJ "Not Guilty" of murder charges. Kodak introduced the DC40 this year, which was the first Digital Camera aimed at consumers, which could be connected directly to a computer and retailed at under \$1,000. Apple introduced their QuickTake camera in the same year.

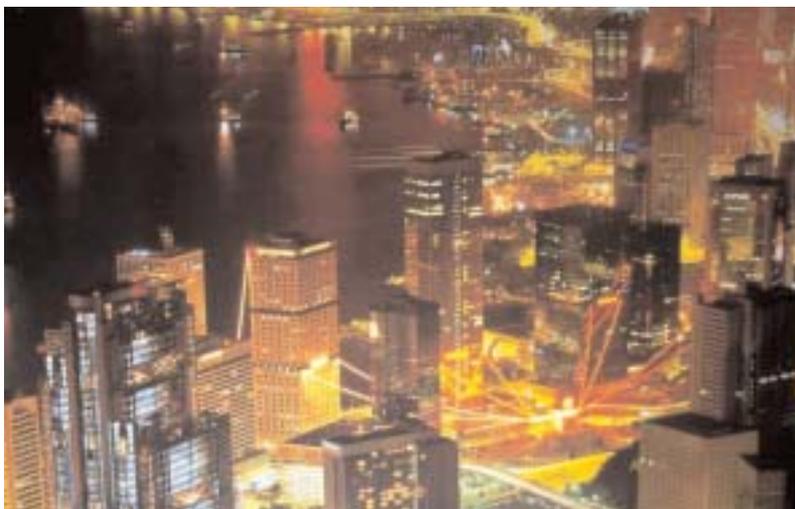


Britain was alarmed by the outbreak of Mad Cow Disease (BSE) in March 1996 whilst in America, the FBI arrested the suspected Unabomber.

ILFORD introduced its third generation Chromagenic film, XP2 Super this year, Ella Fitzgerald, the legendary Jazz Singer died, Prince Charles and Princess Diana agreed to divorce and France announced its intention to stop Nuclear testing. Cloning left the realm of Science Fiction and became reality in



1997, when Scientists at Edinburgh's Roslin Institute gave birth to "Dolly the Sheep". The Hale Bopp Comet passed the closest to Earth that it would be for



another 4397 years and the Mass Suicide took place of the Heaven's Gate religious Cult in California. Princess Diana died this year when she was involved in a car crash in Paris, France and Mother Theresa of Calcutta received the first State Funeral accorded to a "private citizen" in India. Hong Kong returned to Chinese Rule after 156 years as a British Territory and two people were convicted for the World Trade Centre Bombing in New York.



The world's first "Razor Scooter", the late Twentieth Centuries last fad, was unveiled at the National Sports Goods Association (NSGA) World Sports Expo in Chicago 1998 by its Taiwanese inventor Gino Tsai. US President Bill Clinton denied all allegations of an affair with White House intern Monica Lewinsky this year and a landmark peace settlement,

The Good Friday Accord, was achieved in Northern Ireland. ILFORD entered the mass inkjet consumer market with the launch of the PRINTASIA Inkjet Photo Range of papers.

In 1999, King Hussein of Jordan died as did John Kennedy Junior, when his Private Aircraft crashed as he piloted it to the Kennedy Family retreat. The first non-stop

Balloon flight around-the-world was completed by Bertrand Piccard of Switzerland and Brian Jones of Britain.

The circumnavigation took 20 days to complete. The "Melissa" computer virus wreaked havoc as it spread across the Internet and Libya handed over two suspects for the 1988 Lockerbie Bombing of PanAm 103. Nelson Mandela retired as President of South Africa this year and Britain's



Prince Edward married Sophie Rhys-Jones. US Judges ruled Microsoft was a Monopoly, Scientists measured the fastest wind speeds ever recorded on Earth at 318mph and Self Rule began in Northern Ireland for the first time in 25 years. On October 1<sup>st</sup> 1999, the world population reached 6 billion.

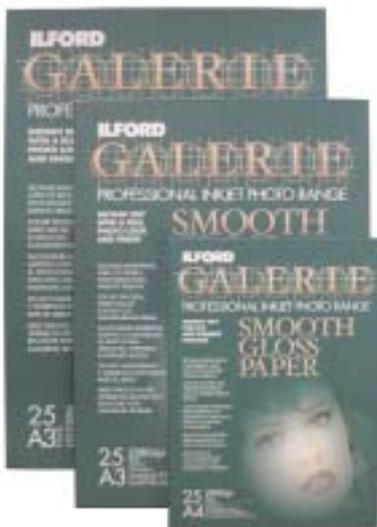


Afghan Hijackers seized a plane in 2000, eventually releasing the hostages at Stanstead Airport, England and the short lived Self-Rule in Northern Ireland ended as the IRA missed their disarmament deadline. Bill Gates' Microsoft Corporation lost its Anti Trust suit in the USA and the "I Love You"

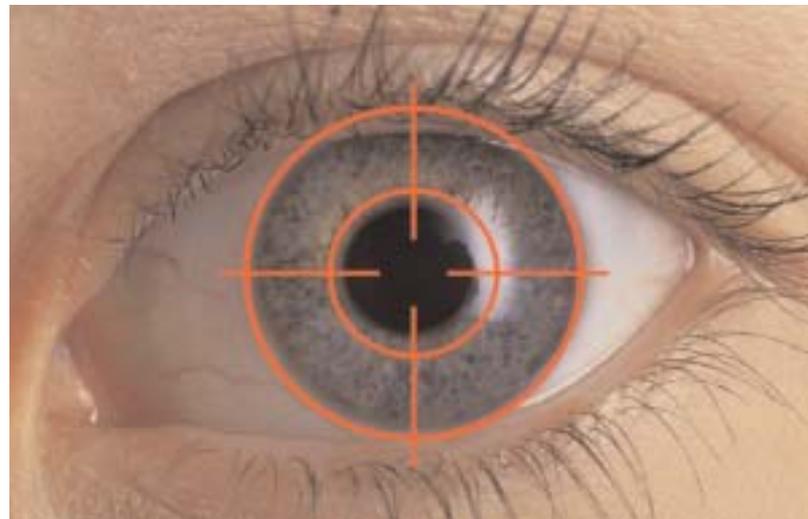


virus disrupted computers worldwide. In France, an Air France Concorde crashed near Paris, killing all 113 on board and George Bush's slim majority in Florida during the US Presidential Elections leads to an Automatic recount. This was also the year that ILFORD launched the GALERIE Professional Inkjet Photo Range of paper and media.

Dean Kamen, an Entrepreneur from New Hampshire, invented the mind-boggling Segway Human Transporter in 2001. US Millionaire Dennis Tito became the first "space tourist" this year, the Artificial Liver was invented by Dr Kenneth Matsumura of the Alin Foundation, Self-cleaning windows were invented by PPG Industries and the Enron Corporation, one of the world's largest companies, filed for bankruptcy. By the end of the year, Paul McCartney and Ringo



Starr would become the two surviving Beatles, following the death of George Harrison. All will remember the horrific act of Terrorism that occurred on September 11<sup>th</sup> this year. The Twin Towers of the World Trade Centre in New York were destroyed when two Jet Airliners were deliberately flown into the main structures of the buildings, a third Jet was forced to crash into the Pentagon in Washington DC and a fourth Aircraft was crashed to the ground 80 miles from Pittsburgh. The news of these atrocities shook the world and the immediacy of new technology brought terror into every home.



Twelve European countries adopted the new European Monetary Unit and became "Euro Paying" on January 1<sup>st</sup> 2002, the year that James Auger and Jimmy Loizeau invented the "Phone Tooth", although to date, there are not many Early Adopters of this technology. The Foveon Camera Chip was invented by Richard Merrill, Queen Elizabeth II celebrated her Golden Jubilee, Ryan Patterson invented the Braille Glove and a Terrorist bomb attack in Bali killed hundreds at a Night Club. Washington DC was preyed upon by Snipers, resulting in the arrest of two men in October of that year.

US and British Coalition forces went to War with Iraq, ousting Saddam Hussein's Dictatorship in 2003, Concorde flew

Supersonically for the final time and terrorist bombs exploded outside the British Consulate and HSBC Bank in Istanbul, Turkey. Wall Street Journalist Michael Drosnin found a "hidden skip-code" in the Bible, which predicted the end of the world in 2010 and Paul McCartney stripped naked the final Beatles Album "Let It Be" of Producer Phil Spector's original mix. Spector himself was on trial for murder. US President George Bush left Buckingham Palace to have lunch with Prime Minister Tony Blair at the Dun Cow Pub in the village of Sedgewick, Cumbria, before returning to America.

British Pensioner Kenneth Wightman from Bolton, became the first Blind person to "see" again, using a revolutionary Bionic Eye. Following a £60,000 operation, Kenneth became one of 8 people from around the world to have a Bionic Eye. At the close of the year, sending SPAM in Europe became a Criminal offence, carrying a fine of up to £5000 and on December 13<sup>th</sup> 2003, American Troops captured Saddam Hussein. He was found hiding underground in a 9ft square bunker near the town of Tikrit in Iraq.

By the close of the Twentieth Century and the beginning of the 21<sup>st</sup>, inventions and innovations were becoming increasingly "virtual". This brief review of the icons, events and innovations of the past 125 years has taken 62,146 characters to describe and contains 12,088 words according to the word processing package used, which incidentally, was invented in 1992. It can only be hoped that the next 125 years will be as eventful and interesting to describe.

Does anybody fancy trying to re-invent the wheel?

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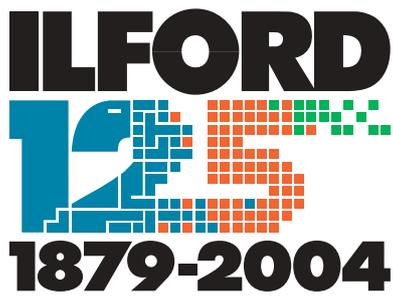
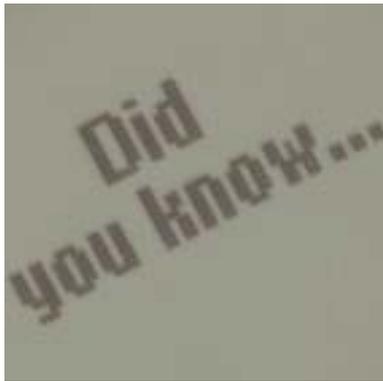
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ILFORD Imaging Limited, Town Lane, Mobberley, Cheshire, WA16 7JL