The Glattfelders and their Patents

Glattfelders and their contributions in many fields of science.

By: Harry F. Gladfelter



The Glattfelders and their Patents – From the Author



- In doing some research on one of my patents, I put in a wrong letter and up came a patent by Wiltie I Gladfelter.
- Surprised and looking for more, I came across many patents by decedents of Casper Glattfelder.
- It's broken into three time periods: Early 1800's to 1920's, Early Modern 1930's to 1960's, and Modern 1970's to present.
- It contains 65 inventors, and over 250 individual patents, spanning 142 years, and all decedents of Casper Glattfelder and his brother Peter Glattfelder….. Amazing!

The Glattfelders and their Patents – A Little History

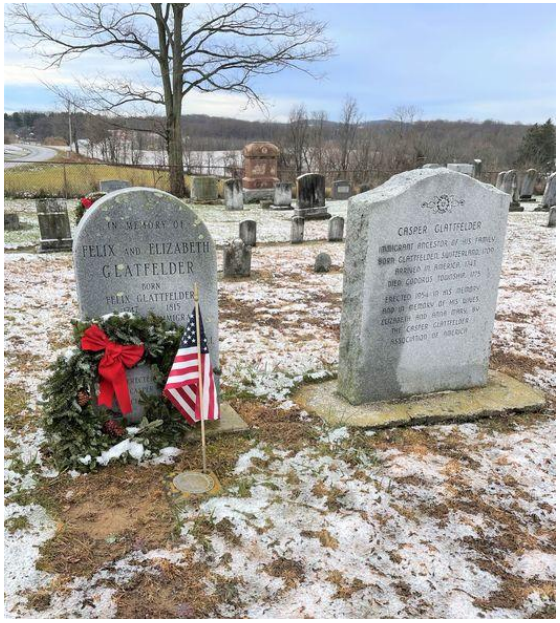


- Brothers Casper (b. 1709) and Peter (b. 1700) set out from Glattfelden, Zurich, Switzerland for the Carolinas in 1742.
- Sadly, Johann Peter drowned in the Rhine River on the way to Basel, and the two families returned to Glattfelden.
- The following year, the two families left again for America on the ship "Francis and Elizabeth," and arrived 30 August 1743 to Philadelphia.
- Both settled for a time in York County, PA.

The Glattfelder's and their Patent – History

- Casper and his family remained in and around Seven Valleys, PA.
- As the family grew and his sons and daughters had children of their own, derivations of the name emerged.
- Glatfelter, Gladfelter, Clatfelter ,Glotfelter became common.





The Glattfelder's and their Patents – History

- Some of Johann Peter's family (Felix and Rudolf) moved on to Rowan Co. (now Davidson Co.), NC.
- In North Carolina, the spelling of the name was eventually changed to "Clodfelter."





The Glattfelder's and their Patents – History

- Casper's oldest son Solomon, who had made the trip across the ocean with him, moved west, ending up in Salisbury, MD.
- He and his wife Marie Eva eventually changed their name to Glotfelty.



Glotfelty House: It was built by Solomon Glotfelty, circa 1776 near Pocahontas Road, Grantsville, MD. Then rebuilt and moved to the Village, in Grantsville, PA as a one-story cabin in 1972.



The Glattfelder's and their Patents

- Glattfelder's, however they spell their name, are now spread throughout the United States.
- All Glattfelder patent holders are now recognized for their talents as innovators who have contributed to the progress of science in so many fields.



The Early Years



- Frank P. Gladfelter: 1879 -- Moveable Gate; 1910 -- Brake for a Railway Car.
- George Gladfelter: 1894 -- Rail Car Coupler.
- Marion E. Gladfelter: 1897 -- Bicycle Support.
- John W. Clay Glotfelty: 1899 -- Washing Machine.
- Emerson C. Glatfelter: 1906 -- Machine for Forming Concrete Blocks.
- Elwood C. Gladfelter: 1911 -- Breast Drill Attachment.

The Early Years

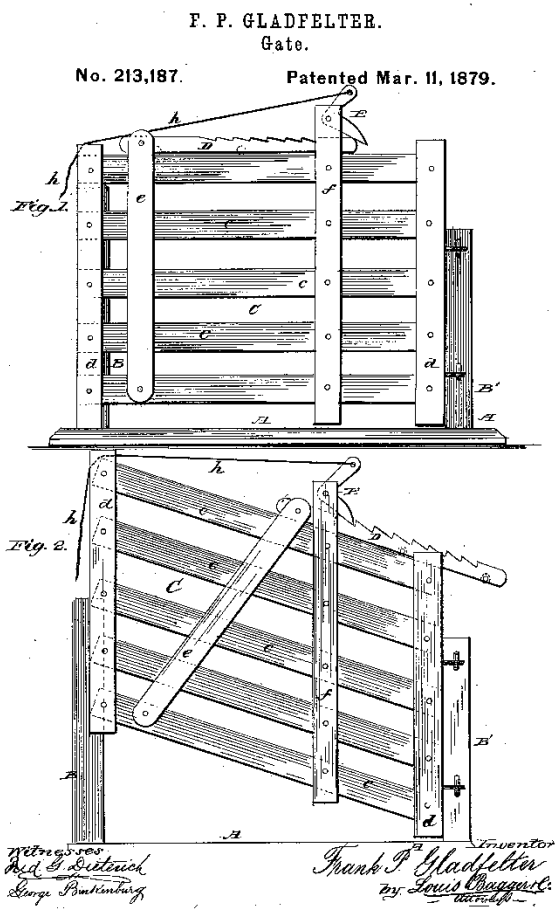


- Edwin M. Glotfelty:1913 -- Lubricating Coupler.
- Robert Gladfelter: 1913 -- Automotive Door Hinge.
- William M. Glotfelty: 1913 & 1914 -- Railroad Car and Rail Accessories.
- Mason J. Glotfelty: 1914 -- Camshaft Positioning Device.
- Arthur Glotfelty: 1914 -- Dust Pan.

Frank P. Gladfelter

US213187A

1879 -- Moveable Gate



John W. Clay Glotfelty



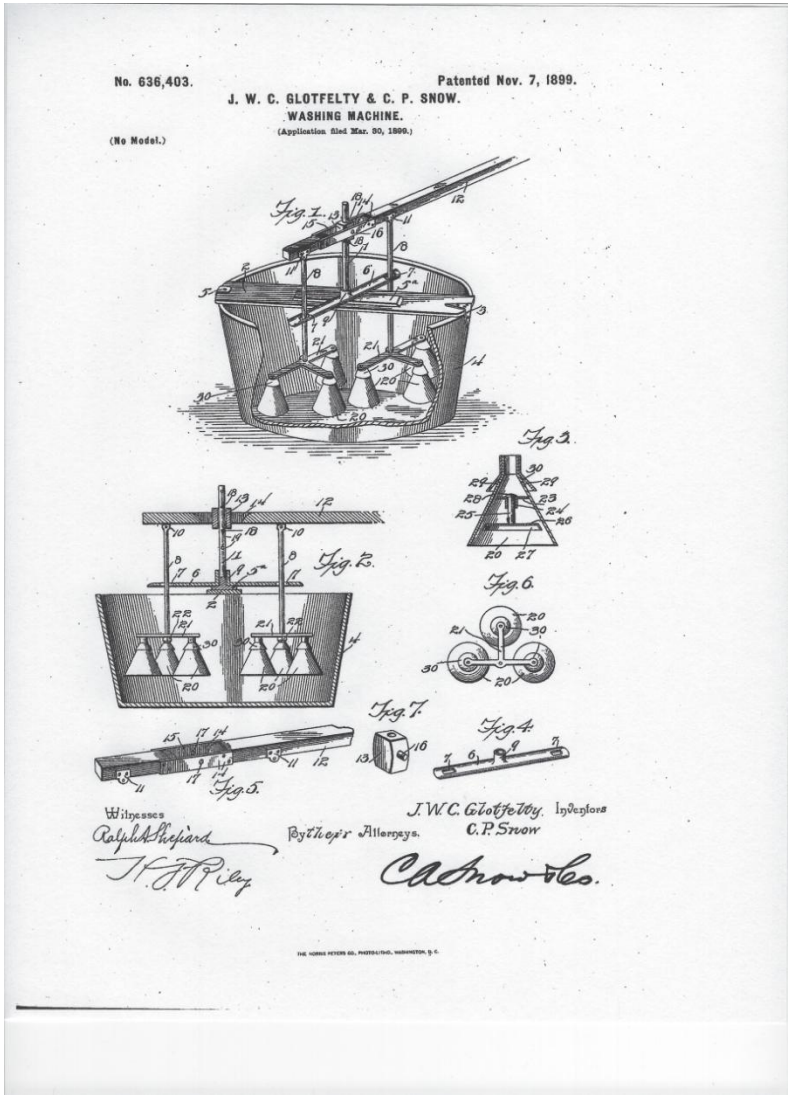
- John Glotfelty and partner Charles Snow patented a washing machine design.
- US 636,403 issued on November 7, 1899.
- Claims: simple, inexpensive, efficient, fast, low labor, with no damage to the fabric.

The Typical 1900 Washing Machine



The J.W.C. Glotfelty & C. P. Snow Washing Machine

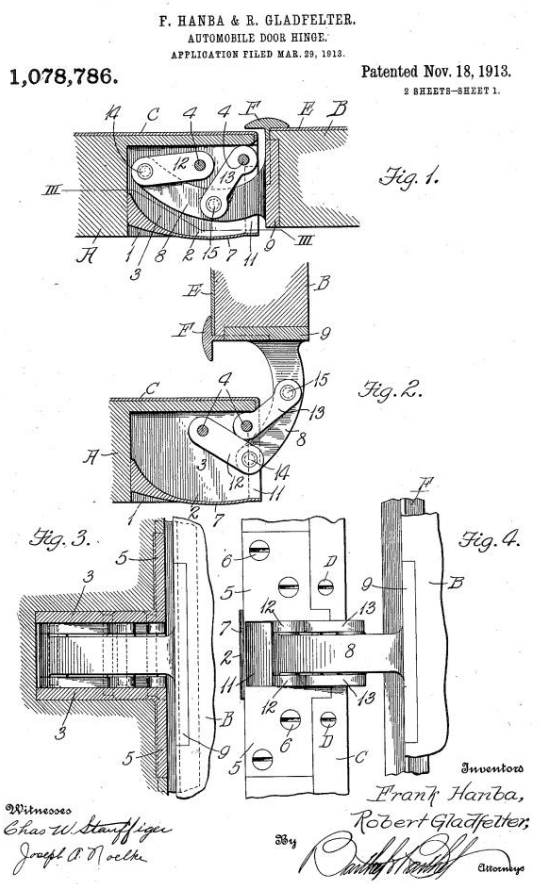
- The washing machine allowed agitation by rotating cones while plunging them up and down.
- Thus introducing agitation to a washing machine.



Robert Gladfelter

Patent US 1,078,786

- Automotive Door Hinge
- Patent issued on November 18, 1913



Robert Gladfelter – An example of a 1913 car. 1913 Chevrolet Classic Six



The Early Modern World



- Elmer Clatfelter: 1926 -- Bolt-heating Furnace.
- Bruce W. Glotfelty: 1927 -- Automatic Safety Appliance.
- Clifford L. Gladfelter: 1930 -- Multisection Unit Shipping Bill.
- Wiltie I. Gladfelter: 1935 to 1958 -- Beverage Processing Equipment and Containers.
- Dr. Edwin Hay Glotfelty: 1945 -- Lubricating Mechanical Coupler.
- Mason J. Glotfelty: 1948 -- Automotive Repair Device.

The Early Modern World



- Homer C. Clatfelter: 1951 -- Tool Holding Device.
- Herman E. Glotfelter: 1953 to 1983 -- Office Furniture Design.
- Frank R. Gladfelter: 1960 -- High Speed Parts Feeder.
- Robert E. Clotfelter : 1960 -- Cladding Assembly
- Edward W. Glatfelter: 1960 to 1987 -- Two speed drill, cigar wrapping machine, and aircraft and helicopter designs.
- Arch P. Glatfelter: 1960 -- Farm Spray Equipment.

The Early Modern World



- George W. Kurtz: 1961 -- Deoxygenating membrane.
- John J. Clatfelter: 1961 -- Means for Supporting Posts in the Ground.
- Carl S. Glatfelter: 1964 -- Bus Emergency Steps.

Herman Elsworth Glotfelter

- Herman had two patents: Combined Desk and Safe (1952) and High Security Transaction Drawer” (1983).
- He went by his middle name, Elsworth



Herman Elsworth Glotfelter

- He was born on a farm in Sugarcreek, Ohio in 1917. Exact date unknown.
- His parents were Harmon Ray and Susanna (Sudie) Glotfelter, and he had two sisters, Mildred Pierson and Mary Etta Webster.
- A high school graduate, he spent most of his early life in sales in Ohio, Indiana, and the Midwest.
- He was a Navy veteran of WWII.

Herman Elsworth Glotfelter

- Elsworth founded his own company, HEGCO Industries that sold his patented transaction drawers to gas stations such as AMOCO, and bank drive-up windows in Texas and Chicago.
- He was always “tinkering” in his workshop and played the ukulele.
- He also had a small darkroom and was an avid photographer.

Herman Elsworth Glotfelter

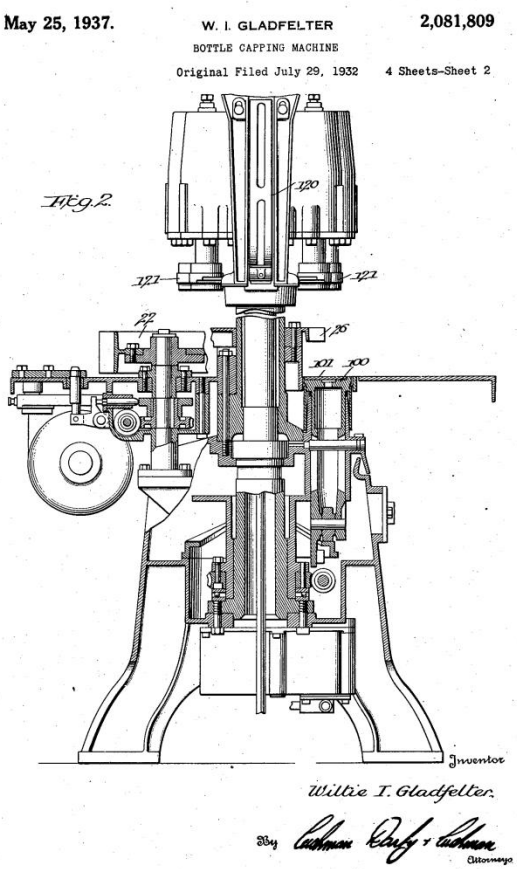
- He married Margaret Sollers and they had a daughter, Louise Glotfelter Soward.
- He and Margret divorced in 1945.
- He married his second wife Grace after moving to Indiana and had a son Mark E. Glotfelter.
- Elsworth had three grandchildren and two great grandchildren.
- He passed away on September 23,1991 in Indianapolis at the age of 83 – 84 and is buried next to his wife Grace at the Mt. Zion Cemetery in Beavercreek, Ohio.

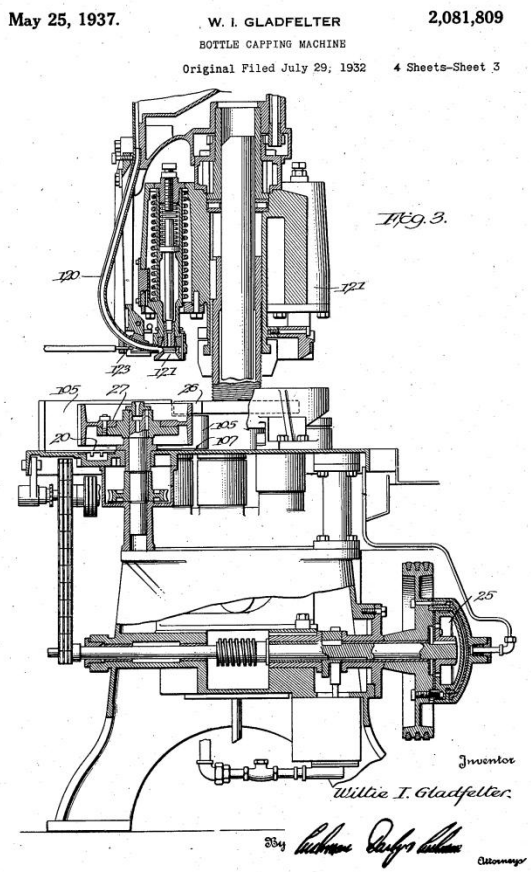
Wiltie I. Gladfelter



- Wiltie had 45 patents for the invention of beverage containers, bottle cap closing equipment and can making equipment.
- Wiltie worked for Crown Cork and Seal and then Pangborn Corp. for many years.
- Wiltie's education is unknown but his mechanical engineering skills were highly evident in his inventions.

Wiltie I. Gladfelter's Bottle Capping Machine - Patent US 2,081,09A (1937)


May 25, 1937. W. I. GLADFELTER 2,081,809
BOTTLE CAPPING MACHINE
Original Filed July 29, 1932 4 Sheets-Sheet 2
Fig. 2.
Inventor
Wiltie I. Gladfelter.
By Cushman Darby & Cushman
Attorneys


May 25, 1937. W. I. GLADFELTER 2,081,809
BOTTLE CAPPING MACHINE
Original Filed July 29, 1932 4 Sheets-Sheet 3
Fig. 3.
Inventor
Wiltie I. Gladfelter.
By Cushman Darby & Cushman
Attorneys

Wiltie I. Gladfelter



- Wiltie was born December 7, 1898 and died July 2, 1976. He was 77.
- He was married to Blanche V. (Gibbs) Gladfelter.
- They lived on Cherry Tree Lane, Williamsport, Md.
- He is buried in the Zion Lutheran Cemetery, Glen Rock, Pa.

Edward W. Glatfelter

- Edward W. Glatfelter had six patents pertaining to helicopter design, a cigar wrapping machine, and a two speed hand drill.
- Most significant was his patent for a vertical takeoff aircraft that would then fly like a plane. V-22 Osprey



Edward W. Glatfelter

- Edward graduated from Penn State University in 1950 with a BS degree in mechanical engineering.
- He started his career as a design engineer at Sikorsky Aircraft and settled in Bridgeport, Conn.
- He then accepted a job at Vertol Aircraft, Morton, Pa., where he gained experience in rotor design and transmission design.

Edward W. Glatfelter

- He built his own helicopter in his garage in 1958 and the first flight occurred on a farm in Phoenixville, Pa.
- The “Gladicopter” can be seen at the American Helicopter Museum in West Chester, Pa.
- When Vertol was acquired by Boeing, Ed’s career continued to evolve and he gained experience in structures, transmission design, and flight controls.

Edward W. Glatfelter

- In 1967, Ed created and incorporated a new company called Galaxie Corp., a research and development company.
- Galaxie produced and fabricated molds for composite rotor blade fabrication and designed and developed satellite tracking devices.
- Galaxie had contracts with NASA, Penn State, Drexel University, and The Franklin Institute.

The “Gladicopter” as seen at the American Helicopter Museum



Edward W. Glatfelter

- Ed was born on April 21,1929, in York, Pa. He had a sister, Janet.
- His father, Dr. Edward A. Glatfelter, was a chemist and became principal of York High School.
- He was married to Janet Virginia Fischer Glatfelter in 1955.
- They had four children, Edward Fischer, Carol Ann, John William and Nancy Ruth Glatfelter.
- Edward W. Glatfelter passed away on January 20,1999.

The Modern Era



- Gerald G. Clodfelter *:* 1971 -- Apparatus for Playing a Bingo Like Game.
- Wayman N. Clotfelter : 1976 -- Method for measuring biaxial stress in a body subjected to stress induced loads.
- Ronald W. Clotfelter : 1977 – Shell Jewelry.
- Glen A. Clodfelter : 1979 -- Coned Joint for Joining Dissimilar Diameter Filament Wound Tubes.
- Dr. Joseph F. Myers: 1981 Chemistry, Lithographic Printing Improvements.
- Herman E. Glotfelter: 1981 -- High Security Transaction Drawer.

The Modern Era



- Dr. Elizabeth J. Gladfelter: 1983 to 2009 -- Chemistry, Packaging and Aerosols.
- Kenneth A. Clatfelter: 1985 to 1987 -- Processing Chicken and Meats for commercial sale.
- Harry F. Gladfelter: 1987 to 2016 -- High Tech Textiles, Automotive.
- Jason Gladfelter: 1990 -- A Device to Locate Molten Asphalt to Spot Locations.
- Craig A. Glotfelter: 1991 to 1995 -- Chemistry, Floor Coverings.

The Modern Era



- William W. Clodfelter, Sr.: 1991 -- The ornamental design for a baseboard molding segment having a duplex outlet.
- Dr. Wayne L. Gladfelter: 1990 to 1994 -- Chemistry, Metal Deposition.
- Robert G. Clodfelter: 1996 -- Inflatable Bag Fire Extinguishing System
- Troy L. Glatfelter: 1993 to 2002 -- Solar Power Photovoltaic Devices.
- William Glatfelter: 2001 -- Magnetic Tape Manufacture.

The Modern Era



- Eileen Glotfelty: 2003 -- Cross Charm.
- David M. Glatfelter: 2004 -- Integrated Quick Wall Building System.
- David K. Gladfelter: 2005 -- Instrument Communication Devices.
- Dr. Patricia J. Donaldson: 2005 to present -- Printing equipment.
- Thomas L. Glatfelter Jr.: 2007-- Bag Dispenser at a Work Station.
- Dr. Heather J. Gladfelter: 2002 to 2015 -- Biology, Embryogenic Tissue of Pine Trees.

The Modern Era



- Michael J. Glatfelter: 2013 -- Refrigerant Recovery and Charge System.
- Kyle J. Glatfelter: 2013 – Optical Cable Grounding System.
- James F. Clodfelter: 2013 -- Apparatus for Detecting Subsurface Objects with a Reach-in Arm.
- Christopher B. Clodfelter: 2013 -- Tamper Evident Container Closure with Flip-top Cap.
- Robert M. Clodfelter: 2014 -- Non-linear Image Mapping using a Plurality of Non-linear Image Mappers of Lesser Resolution.

The Modern Era



- Wayne M. Hartman: 2014 to 2020 -- Wildfire Risk Assessment, Systems and Methods for Distributed Currency Management.
- Bryan J. Glatfelter: 2017 – Motorized Utility Table for Finishing Concrete.
- Jacob Gladfelter: 2017 -- Detection and Separation of Laundry with Foreign Items Comingled.
- John W. Glatfelter: 2017 to the present -- Aerospace Applications from Airport Security Devices to Antiglare Windshields

The Modern Era



- Nicolas Roth: 2019 to Present – Apps linking a cell phone to retail and online shopping/banking.
- Keith L. Glatfelter: 2020 -- Freezestat Assembly.
- Seth K. Gladfelter**:** 2020 -- Bypass Line for Refrigerant in a Air Conditioner or Refrigerator.
- Michael J. Glotfelty: 2020 -- Vertical Kiln
- Dr. Karl H. Clodfelter: 2020 -- Compounds and Compositions for the Inhibition of NAMPT (a protein important to some cancers)

The Modern Era



- Dr. Julie Van Dyke: 2021 to Present - Linguistically -- Driven Automated Text Formatting.
- Dr. Grant C. Glatfelter: 2021 to Present -- The study of compounds modulating melatonin (MT1-MT2) receptors' activity and methods of use thereof for treating MT1 and MT2 receptor-related conditions.

Dr. Joseph F. Myers

- Dr. Joseph F. Myers is a chemist who has Patent US 4,293,625.
- Anchor Layer in Photolithographic Receptor Base Containing Oxide Surface Treated With Titanium Dioxide.



Dr. Joseph F. Myers

- The purpose of his invention was to improve printing.
- When Joe got his patent, he worked as an R&D chemist for the 3M Company.
- After his stint in the lab, he went into technical management and worked for 3M for a total of 26 years.
- Joe was born in 1940 and raised in Colorado but lived for most of his adult life in St. Paul, MN.
- Having his roots in the west, Joe and his wife Sharon retired to Arizona where he presently lives.
- He and Sharon have two children, Jessica Raths and Jennifer Scholfield, both of CO.

Dr. Joseph F. Myers

- Joe is a descendent of Felix Glattfelder and Maria Sarah (Meyers) Glattfelder who moved from York County, Pa to Davison County, NC in 1765.
- Joseph Clodfelter and Charity Myers of Davison, NC had a son John Angerwine Myers who is Joe's great-grandfather.
- Joe has a BS and MS from Adams State College, and his PhD from the University of Washington in chemistry.
- Joe and Sharon love the local Arizona history and are heavily involved with the ANZA historical society.

Dr. Elizabeth J. Gladfelter

- Dr. Elizabeth (Betty) Gladfelter's innovation and technical achievements are protected by 26 U.S. patents.



Dr. Elizabeth J. Gladfelter

- Betty has 20 plus years of corporate experience as an R&D chemist and in technical management while working for Henkle Inc. and Ecolab Corporation.
- She left the corporate world and started her own consulting company specializing in the area of competitive intelligence and intellectual property analysis to allow any size company to enjoy a competitive advantage.

Patent and Commercial Product

US005328082A

United States Patent [19]

Fritz et al.

[11] **Patent Number: 5,328,082**

[45] **Date of Patent: Jul. 12, 1994**

[54] **APPARATUS FOR DISPENSING MOISTURE-SENSITIVE UNIT DOSE PACKAGES**

[75] Inventors: **Barbara L. Fritz**, Burnsville; **Elizabeth J. Gladfelter**, Falcon Heights; **Tina O. Outlaw**, Inver Grove Heights, all of Minn.

[73] Assignee: **Ecolab Inc.**, St. Paul, Minn.

[21] Appl. No.: **58,158**

[22] Filed: **May 5, 1993**

Related U.S. Application Data

[62] Division of Ser. No. 756,458, Sep. 9, 1991, Pat. No. 5,249,737.

[51] **Int. Cl.**[5] **B65D 5/36**

[52] **U.S. Cl.** **229/122.1**; 221/302; 221/305; 222/541

[58] **Field of Search** 229/122, 122.1; 221/1, 221/302, 305, 306; 222/527, 528, 531, 534, 535, 541, 547, 564

[56] **References Cited**

U.S. PATENT DOCUMENTS

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4,930,681	6/1990	Fultz et al.	229/114
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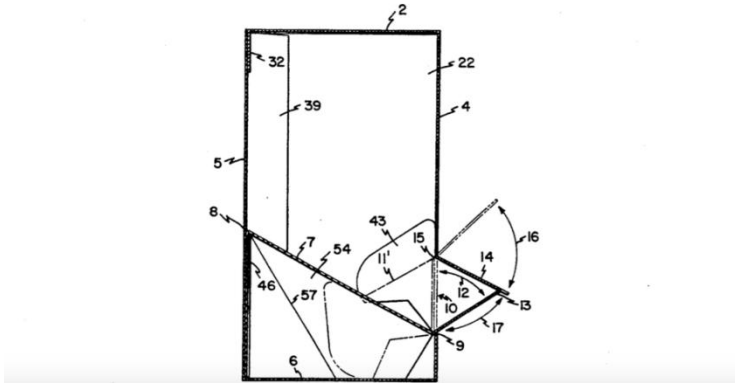
202391	3/1938	Switzerland .

Primary Examiner—Gary E. Elkins
Attorney, Agent, or Firm—Merchant, Gould, Smith, Edell, Welter & Schmidt

[57] **ABSTRACT**

A unit dose package dispenser (**1**) including a drawer (**13**) and ramp (**7**) such that unit dose packages are urged through an aperture (**10**) and into the drawer (**13**). The ramp (**7**) is elevated from the bottom region (**6**) of the container (**1**) so as to isolate the contents of the container from moisture. A cover (**14**) formed integrally with the container front wall (**4**) tends to protect the contents of the drawer (**13**) from moisture in the surrounding environment.

15 Claims, 3 Drawing Sheets





Dr. Elizabeth J. Gladfelter

- Betty also has taught at various colleges and universities and presently teaches at the University of Minnesota, where her husband, Dr. Wayne Gladfelter is a chemistry professor.
- She has a Bachelor of Arts from Douglass College-Rutgers University, a Doctor of Philosophy from the Penn State University, and has done Post Doctoral Work at Penn State.

Dr. Elizabeth J. Gladfelter

- Betty's maiden name was Jedziniak and she and Wayne met at Penn State when they were doing their PhD's.
- They married and have two children, Katherine Belcher (married to Ryan), and Christopher Gladfelter (married to Nicole), and four grandchildren, Reese and Zoey Belcher and Caden and Brynlee Gladfelter.

Dr. Wayne L. Gladfelter

- Dr. Wayne Gladfelter has 6 patents on the chemical deposition of thin films of aluminum, iron, ruthenium, and osmium on to plastic surfaces.

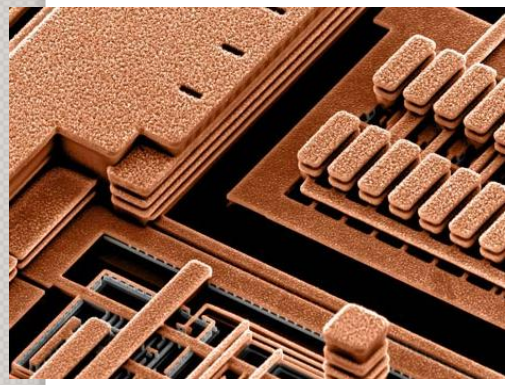


Dr. Wayne L. Gladfelter

- Wayne is a distinguished professor of chemistry at the University of Minnesota and is a leading expert in chemical deposition of metals to form thin films.
- Thin metallic films are useful for their high electrical conductivity, high reflectivity, mechanical strength, and resistance to chemical attack.

Dr. Wayne L. Gladfelter

- Thin films add functionality to materials.
- Wayne works to discover new chemicals used to manufacture thin films.



Microelectronics



Optical



Metallurgical

Dr. Wayne L. Gladfelter

- Wayne has earned many honors and awards and has many scientific publications in the field of chemistry.
- Wayne is on the Colorado School of Mines "Wall of Fame”.
- Wayne holds a BS in Mineral Engineering Chemistry from the Colorado School of Mines and a PhD in Chemistry from Penn State University.
- Wayne did his Post Doctorate work as a National Science Foundation Fellow at CalTech.

Dr. Wayne L. Gladfelter

- Wayne descends from Casper's son John.
- He was born in Bryn Mawr, Pa to Stanley L. and Jean (Davis) Gladfelter and was raised in his father's hometown of Wellsville, Pa.
- Stanley was a founder of the York Federal Savings and Loan.
- Wayne and his wife Elizabeth live in Roseville, MN and they have two children, Katherine Belcher (married to Ryan), and Christopher Gladfelter (married to Nicole), and four grandchildren, Reese and Zoey Belcher and Caden and Brynlee Gladfelter.

Kenneth A. Clatfelter

- Kenneth A. Clatfelter has two patents for preparing chicken for commercial use and one for cooking all types of meat.
- All three patents describe methods to improve cook time and cost.



Kenneth A. Clatfelter

- Ken worked for the Campbell Soup Co. as a food technologist, first at the Sacramento, CA plant and then at the research facility in Camden, NJ, were he was the manager of his department.
- Ken’s license plate.



Kenneth A. Clatfelter

- Ken was born on December 8, 1921 in Wallowa, Oregon and attended New Plymouth High School in Idaho.
- He attended the University of Idaho in Moscow, Idaho and graduated with a BS in chemical engineering.
- He married Beulah Marie (Pope) in Pocatello, Idaho on October 23,1943.
- He and Beulah had two sons, Richard D. and Thomas E. Clatfelter, who were both born in Idaho.

Kenneth A. Clatfelter

- To work at the Campbell Soup R&D facility in Camden, the family moved to New Jersey, settling in Moorestown.
- There, they attended the Moorestown Bible Church and had an active social life.
- Ken’s final assignment with the company was at their chicken processing plant in Fayetteville, Arkansas.
- It is here that Ken and his wife retired.

Kenneth A. Clatfelter

- Ken was also an Air Force Reserve officer and earned the rank of Lt. Colonel.
- He enlisted in the Army Dec 8, 1941 the day after Pearl Harbor on his 20th birthday.
- He was assigned to the 453rd Bomber Group as a navigator on a B-24 and served under Major James (Jimmy) Stewart.
- Ken and his crew were shot down on his 26th mission crashing in Almo, Sweden where he and his crew were held as POWs until Swedish liberation.

Kenneth A. Clatfelter

- Ken died on August 16, 1996 in Fayetteville, Ark at the age of 74.
- He is buried at the Fayetteville National Cemetery.

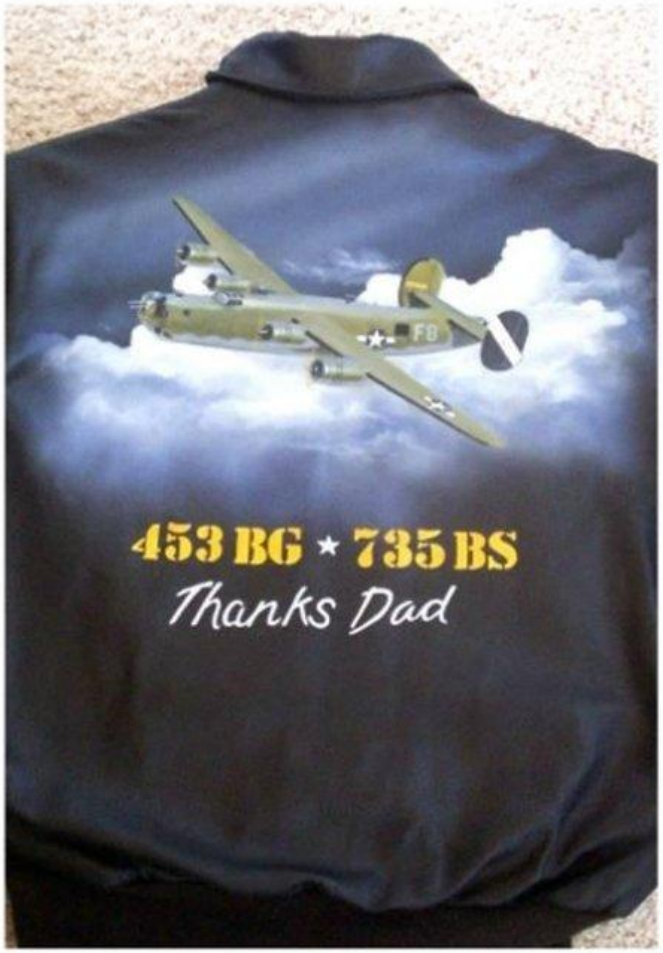


Kenneth A. Clatfelter

Ken's B-24 Flight Crew, he's on the bottom row, second from the left.



Kenneth A. Clatfelter



- The flight jacket given to Ken by his sons Richard D. and Thomas E. Clatfelter in remembrance to their dad's service and sacrifice to his country.
- Quite a tribute to an American Hero!

Harry F. Gladfelter

- Harry has 16 U.S. patents in industrial textiles that include protective sleevings, acoustic abatement, electronic EMI/RFI shielding, and flexible reflective heat shields.
- Applications include products for automotive, aerospace, and electrical insulation.



Harry F. Gladfelter

- Harry started his career as a technician working at the Campbell Soup Co. in Camden, NJ. Yes, he and Ken knew each other.
- After six years there he got a job at the Rohm and Haas Corp. in Philadelphia as a lab bench technician.
- Graduating from college he was offered a job as a chemist for an industrial textile company, the Asten-Hill Co.
- He worked his way up to Product Development Manager and worked in Devon, PA and Walterboro, SC.

Harry F. Gladfelter

- When Asten-Hill decided to move all their operations to South Carolina, Harry decided he was staying in Pennsylvania and found a job at Bentley Harris Manufacturing Co.
- It was here that Harry began collecting his patents.
- His first patent was an EMI/RFI shielding fabric sleeve, (Fabri Shield) that was inspired by his electronic training he gained as a radar repairman in the U.S. Marine Corps.

Harry F. Gladfelter



Featured Patent US 7,744,143

- This invention takes synthetic fibers and ground Asian cardboard to form an acoustic nonwoven panel for automobiles.
- The Asian cardboard came from boxes that auto parts were packed in, that were used to assemble U.S. cars.
- The Asian cardboard isn’t able to be recycled because of fiber length and was filling up landfills.
- This invention put the cardboard waste into the vehicle and helped save the environment.

Harry F. Gladfelter

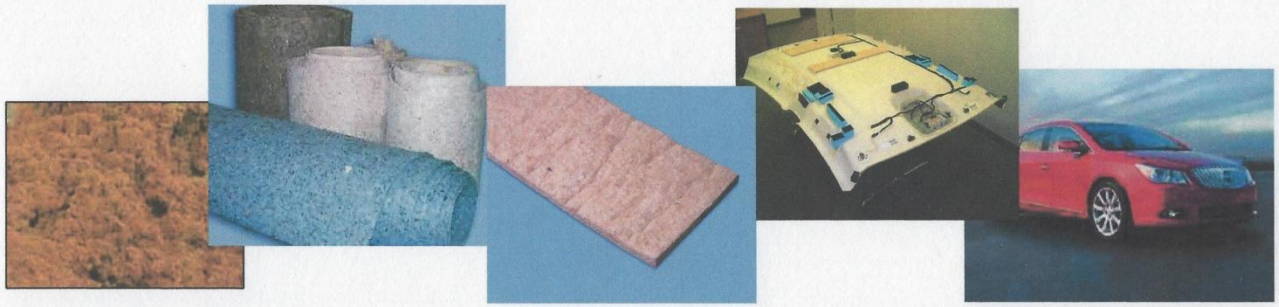


History

FEDERAL MOGUL

- Partnership with GM - 2006
  - Asian cardboard waste stream
- Obtained nonwovens technology - 2007
- Launched QuietShield AN EARTH-FRIENDLY SOLUTION GRN in 2009
  - Acoustic absorber





Harry F. Gladfelter

- Harry holds a BS in chemistry from the Philadelphia College of Textiles and Science and a Certificate in chemical engineering from Temple University.
- Harry lives in Kimberton, Pa., with his wife Vivian J. Gladfelter.
- They have three children, Harry A Gladfelter, Bret Kyler, and Jason Kyler.
- Two of Harry's children are deceased: Christian F. and Heather G. Gladfelter.

Harry F. Gladfelter

- Harry was born in Audubon, NJ on April 6, 1943 and calls his hometown Hi-Nella, NJ.
- Harry comes from the line of Casper's son John and is named after his grandfather Harry F. Gladfelter (1892 – 1958).
- His parents were Harry A. Gladfelter (1921 – 1993) and Marion A. (Stetler) Gladfelter (1921 - 2013).
- Harry has a sister, Marilyn Amy (Gladfelter) Patterson.

Harry A. Gladfelter

- Harry's dad did not have a patent but led an interesting life.
- He was born in Baltimore, MD on February 9, 1921 to Harry F. and Ethel M. Gladfelter of Audubon, NJ.



Harry A. Gladfelter

- He graduated from Audubon HS, (NJ) class of '39, where he played football as a guard.
- After graduating, he worked at the New York Shipbuilding Corp. and learn a trade as a boiler maker.
- When the war broke out, he married his high school sweetheart, Marion Stetler and joined the Navy in 1942.
- He served 3 years. Harry F. was born in 1943 when Harry A. was over seas.

Harry A. Gladfelter

- After the war he went back to the "yard" and worked there for 28 years until it closed in '67.
- He then worked at the JJ Henry Co. a marine engineering, navel architect firm as a sales engineer.



Harry A. Gladfelter

- He was active in local politics and served as the mayor of Hi-Nella, NJ for two terms in the early 60's.
- He was also elected President of the Camden County Mayors Association.



Harry A. Gladfelter

- Harry loved to read and loved science fiction.
- He also had a good voice and sang at various venues.
- He loved the Jersey Shore and he and Marion had a trailer at Lake & Shore Campground near Sea Isle City for years where he would fish and clam.
- Harry passed away on December 17, 1993 at 72 and is buried with Marion at the Hill Crest Memorial Cemetery in Hurffville, NJ.

Troy L. Glatfelter

- Troy L. Glatfelter is a scientist who has ten patents on solar panel technology while he worked for United Solar Systems Corp. of Troy, Mi and Sky Solar LLC, a world wide solar technology company.
- Troy presently works for Rigaku Innovative Technologies as a staff scientist in the Department of Materials Science at the Auburn Hills, Mi facility.
- Rigaku Innovative Technologies (RIT) is a global supplier of high performance multilayer optics used in commercial and academic institutions and government research facilities.

Troy L. Glatfelter



- Troy has a BS in physics from Eastern Michigan University and a post bachelors degree in computer science from Wayne State University.
- Troy is married to Rebecca L. (Harris) Glatfelter and they have a son, Brandon J. Glatfelter.
- Brandon also works for Rigaku.
- Troy and his wife presently live in Royal Oaks, Mi.

Dr. Heather J. Gladfelter

- Heather has one patent: US2012137390A1
- It relates to a method for regenerating shoots from plant explants using a plant culture medium including meta-topolin.
- The invention provides media and methods for regenerating forest trees. In particular, methods for regenerating stably transformed pine trees.



Dr. Heather J. Gladfelter

- Heather is a research professional at the University of Georgia.
- She was also a professor at Brenau University and co-director of the Endangered Plant Program there.
- At Georgia, she is heavily involved and one of the leading experts in the study of saving indigenous trees from extinction by foreign fungus and insects.

Dr. Heather J. Gladfelter

- One of Heather's latest endeavor is the Franklin Tree Project.
- An extinct tree in the wild, native to only a six-acre stretch of Georgia; it was killed by a fungus attributed to the death of the chestnut, dogwood, and hemlock.
- If her study is successful, the Franklin Tree could finally return from extinction, and she may have discovered the key to resurrecting other North American trees.
- The Franklin Tree Project will be a one-hour documentary filmed in HD for television.

Franklinia alatamaha

The Franklin Tree



Franklinia alatamaha

The Flower



Dr. Heather J. Gladfelter

- Being studied are the Eastern and Carolina hemlocks being destroyed by the Hemlock Woolly Adelgid.
- HWA was accidentally imported from Japan and first seen in the eastern U.S. in the 1950s. Both hemlock species in the Eastern US may be lost within the decade

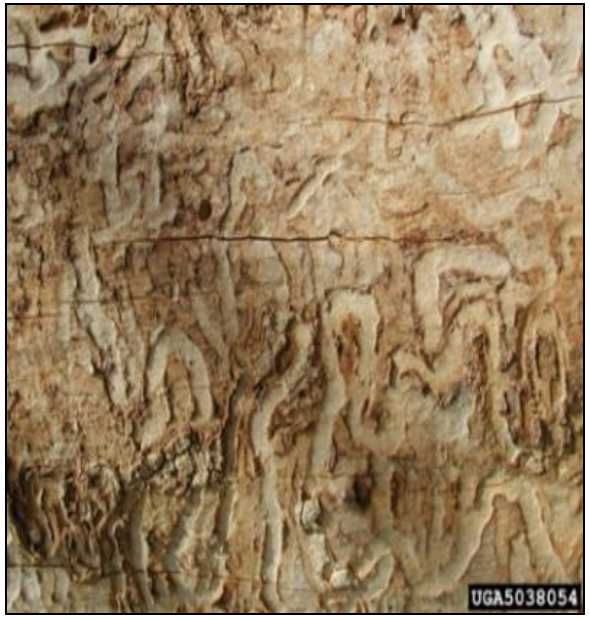




Dr. Heather J. Gladfelter

- North American ash species, including White Ash and Green Ash are attacked by the Emerald Ash Borer.
- EAB was accidentally introduced from Asia and discovered in Michigan in 2002.
- EAB has already killed millions of ash trees in dozens of US states and Canada.





Dr. Heather J. Gladfelter

- She holds a Bachelors and Masters Degree in horticultural science from New Mexico State University.
- She has an MBA from the University of Phoenix.
- Heather earned a PhD in horticultural science from the University of Georgia.

Ralph J. Gladfelter

- Heather's parents were Ralph and Jeanne Gladfelter.
- Ralph did not hold a patent but had a career worth noting.



Ralph J. Gladfelter

- Heather's father Ralph J. Gladfelter Jr. was born in Chicago and grew up in Springfield, Mass.
- He served in the Air Force during the Korean War.
- After his service, he worked at Pratt & Whitney, the Springfield Armory, and Hamilton Standard.
- He moved to New Mexico and worked at the Los Alamos National Lab, where he retired after 33 years.
- He was married to Jeanne (Farley) Gladfelter and they had five children: Ralph Gladfelter III, Jeffrey Gladfelter, Alan (Cynthia) Gladfelter, Heather Gladfelter, Sharon (Patrick) Werick.
- He passed away on September 7, 2015 at the age of 84.

Dr. Patricia J. Donaldson

- Pat is a biophysicist who has worked for Xerox for 30 years in various engineering functions in the design of printing machines.
- Pat's name is on 50 US patents centered on Xerox technology of printing in all forms.



Dr. Patricia J. Donaldson

- Pat's patents included the design process controls system for color printing presses, including sensor calibration, machine setup, runtime controls and image processing algorithms.
- She holds multiple patents for controlling image quality on Xerox's iGen color printers, which print 4-5 color images at over 100 pages per minute.
- She holds two patents for the design of 3D printers, using rotation (either on a turntable, or onto a rotating core), to increase productivity.

Dr. Patricia J. Donaldson

- The materials and methods for 3D printing are slowly catching up to her designs, and will someday be used.
- Pat holds one patent using a 3D printer to manufacture chemical “pills”, mostly pharmaceuticals and possibly fertilizer sticks, to give a controlled amount when they dissolve.
- This patent includes methods for combining multiple chemicals (drugs) so that the concentrations of each drug changes as the pill dissolves.

Dr. Patricia J. Donaldson

- Pat comes from the lineage of Casper's son Felix, Felix's son John and John's daughter Elizabeth.
- Elizabeth Glatfelter married into the Ehrhart family by marrying Thomas Ehrhart.
- Three generations later, Clara Ehrhart married Emanuel Kurtz, whose son George William Kurtz is Pat's grandfather.
- The name changes again when Pat married her husband William Donaldson.
- They live in Rochester, NY and they raised two adopted children.

Dr. Patricia J. Donaldson

- Pat has a BA in physics from Oberlin College and a PhD in biophysics from Cornell University.
- She did post-doctoral work at the University of Rochester Medical Center where she designed experiments and analyzed the data.

George William Kurtz

- Pat's grandfather was an engineer for AT&T long lines. He got his electrical engineering degree from Gettysburg College at a time when the department needed its own generator to supply electricity.

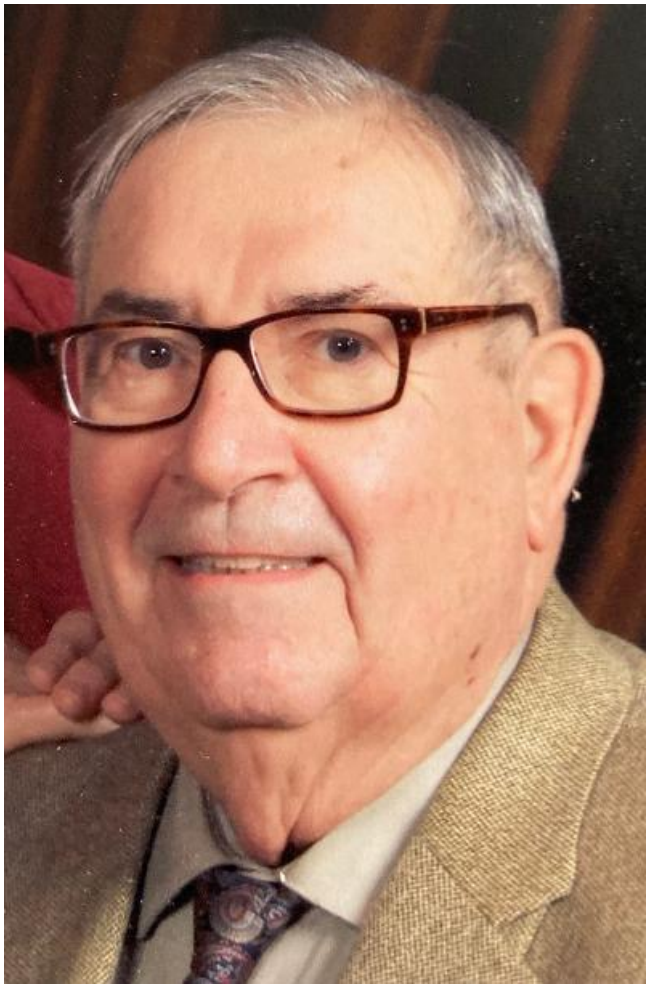


George William Kurtz

- George went to Gettysburg College and became an Electrical Engineer, at a time when the EE building needed to maintain an electrical generator in the basement to ensure a steady supply of electricity.
- He went on to work for AT&T long-lines in Harrisburg and Philadelphia where the electrical engineering he'd learned was soon obsolete, but the mechanical engineering wasn't.
- He ended up helping to build the microwave tower network that delivered long distance phone calls prior to cell phones.

Dr. George Wilber Kurtz

- Pat's dad George was a dairy scientist from Penn State.
- He has 2 patents pertaining to dairy Chemistry.
- He developed a way for determining if milk fat was going rancid, the TBA assay which is still used.



Dr. George Wilber Kurtz

- George was born in Harrisburg, Pa on December 8, 1928.
- His parents were Gladys Mary (Sample) and George William Kurtz from Columbia, Lancaster County, PA
- He married Eleanor Ruth (Swartz) Kurtz and had 3 children: Patricia Joanne, Stuart Allen, and Charles William. All three earned PhDs.
- George and Eleanor met at Penn State, where they were both members of the Lutheran Students association. They were both very active in the Church throughout their lives.
- He wanted to be a minister, but thought he was too good at Chemistry to allow becoming a preacher.
- But he was leader for the adult Sunday bible studies, a member of the Council, and would occasionally give the sermon.

Dr. George Wilber Kurtz

- At Penn State where he got his PhD, George started out in Chemical Engineering, but transferred to Dairy Chemistry, where he specialized in making ice cream.
- He was drafted into the Army quartermaster corps in Chicago, where his job was developing new ice cream flavors which could be made out of K-rations. The base commander would stop by at the end of each day to give his thumbs up or down on the latest scoop.
- His favorite was rum raisin.
- His first job was in Philadelphia at Dalare Assoc, where he did all sorts of drug testing.
- When he worked at Miles Laboratory he was issued a patent for a packet you could put into a food container to scavenge oxygen and keep foods fresh longer.

Dr. George Wilber Kurtz

- Later in his career George became manager of quality control at R.P. Scherer Corporation in Detroit. They encapsulated drugs in gelatin capsules.
- When Scherer decided to move out of Detroit, George became the Plant Manager in North Carolina, and eventually moved to Tampa Florida. His specialty as a chemist was identifying chemicals using thin layer chromatography.
- George and Eleanor retired to Shannondell in Montgomery County, PA.
- George died on January 7, 2021 at the age of 92.
- He is buried in St. Johns Lutheran Church's Columbarium Garden, Phoenixville, PA.

John W. Glatfelter

- John has 40 patents in aerospace and information technology with 9 additional pending.
- John is retired from the Boeing Co. where he worked for 32 years.



John W. Glatfelter

- John is a software engineer by training but his patents are of varied subjects pertaining to aircraft and it's logistics.
- His patents include a security device, an antiglare windshield, and mathematical approaches to air traffic control, and much more.
- Working for Boeing all those years, John is an expert in designing and building helicopters.

John W. Glatfelter

- One of John's more brilliant inventions is a stereo projection video system of an aircraft building process.
- The videos are an overlay of the build with time that allows engineers to see the entire build process.
- The system may then analyze the enhanced walkthrough video using post-processing analytics to identify anomalies and irregularities that occurred during the aircraft build process.

Multi-generational contribution to the Bell/Boeing V-22 Osprey (Edward Glatfelter, his son John Glatfelter, and his grandson Sgt David Glatfelter)



John W. Glatfelter

- John holds a MS in IT from Virginia Tech and a MS in Engineering from Widener University.
- John and his wife Bridget live in Kennett Square, Pa.
- They have five children: Amanda, Steven, Julia, Jonathan, and David Glatfelter.
- Son David Glatfelter served in the Marines and flew combat missions on the Osprey V-22, the aircraft that his dad and granddad had so much influence developing.

David P. Glatfelter

- Son of John W. Glatfelter.
- Born June 10,1991.
- David is presently a CXD Analytics Specialist working for Vanguard.
- David graduated from West Chester University with a BS in mathematics.
- He served in the Marines from 2009 to 2014 in Signal Intelligence.



David P. Glatfelter

- While David was working for Boeing, he and his dad collaborated on an idea and disclosed a patent together.
- That patent issued on 5/19/2021, *Personal Global Positioning System (GPS) Security Token.*
- David is married to Yumi Glatfelter and they have two sons Shaun and Theo.
- They reside in West Chester, Pa.

Nicolas F. Roth

- Nicolas Roth has 7 US patents while he was working for Groupon.
- Nic has left Groupon and has worked for other IT companies since but has no patents to report.



Nicolas F. Roth

- Nicolas Roth has 7 US patents while working for Groupon.
- At Groupon his new software allowed clipping coupons on your mobile phone and redeeming them in stores.
- He left Groupon to lead a technology division at a new financial/technology services company called Avant Credit.
- At Avant he help develop the first mobile app that allowed a user to open a loan or line of credit from their phone.
- He left Avant to join Vivid Seats, a leading marketplace for live event tickets.

Nicolas F. Roth

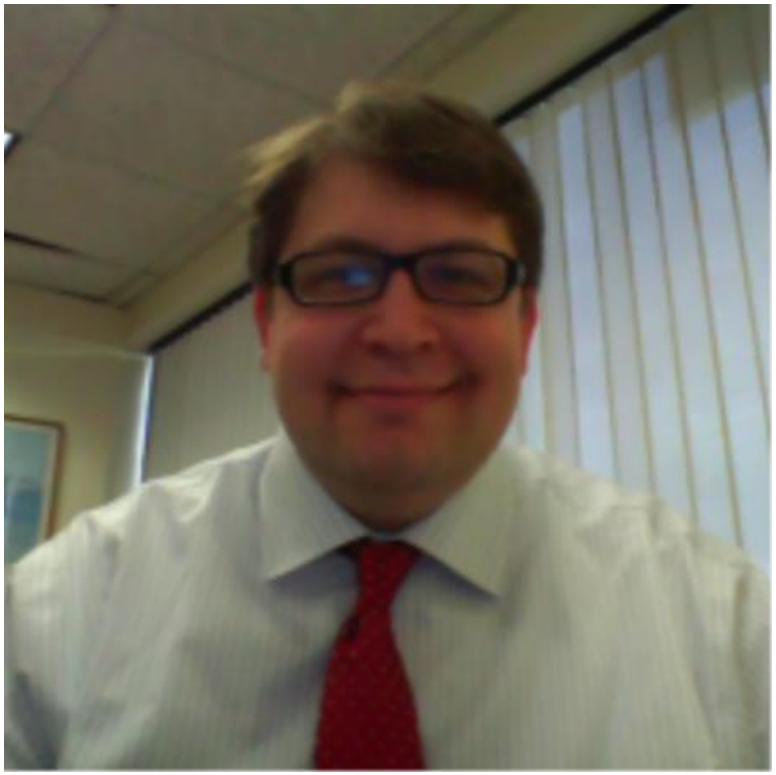
- At Vivid Nic led teams responsible for building and growing the online ticket marketplace allowing millions of fans to see their favorite teams and performers at live events from concerts to the Super Bowl.
- Currently, Nic leads the software engineering team at Postscript, a software-as-a-service platform. They provide tools for online stores to market their products and engage with their customers via text messages on their phones.

Nicolas F. Roth

- He was born in Pensacola, FL in May 1992 and spent most of his childhood in Southern Illinois living with his mother Laura and grandfather Cyril Glotfelty in Murphysboro, IL.
- Nicolas currently lives in Nashville, TN with his wife Victoria.
- He attended Northwestern University in Evanston, IL where he studied Computer Science and Entrepreneurship.
- Nic graduated in May ’22 with a Bachelor's Degree in Individualized Studies from the University of Pennsylvania with a 4.0 average.
- He is presently attending Harvard and pursuing a master's degree in Education Leadership.

Dr. Karl H. Clodfelter

- Dr. Clodfelter has 5 US patents.
- His patents relate to the computational design, creation, and composition of potential chemotherapeutics (Chemotherapy) drugs.



Dr. Karl H. Clodfelter

- These drugs target NAMPT (Nicotinamide phosphoribosyltransferase), a protein used by some cancers to supply energy to their cells.
- Most genes encode proteins, and NAMPT is a protein found in a lot of cells in the body, but what's important about NAMPT is that some cancers can't live without it, whereas other cells can do fine without it for short periods of time, like during chemotherapy.
- Inhibition of NAMPT leads to "starving" the cancer cells, thus killing them.

Dr. Karl H. Clodfelter

- Dr. Clodfelter is a Bioinformationist who is the Cloud Operations Manager working for Preservica Inc. in Boston, MA.
- Preservica is a digital preservation company.
- Karl was also a Senior Consultant at Tessella, an international analytics and data science consulting services company.
- He previously worked at SolMap Pharmaceuticals and Forma Therapeutics where he got his patents.

Dr. Karl H. Clodfelter

- Karl has a BS in Molecular Genetics from the University of Rochester, with a minor in Chemistry.
- And holds a PhD in Bioinformatics from Boston University for the study of Cytochrome P450s.
- Cytochromes P450 (CYPs) are a superfamily of enzymes that oxidize steroids, fatty acids, and xenobiotics.
- Karl's was born in 1977 in Baltimore, MD and now resides in Boston, MA.

Patricia Clotfelter – Patent Attorney

- Patricia Clotfelter concentrates her practice in the area of commercial litigation with an emphasis on intellectual property.
- Pat is a shareholder at Baker, Donelson, Bearman, Caldwell & Berkowitz.



Patricia Clotfelter

- Pat has extensive experience litigating in state and federal courts in a variety of jurisdictions in and outside of Alabama.
- Her experience includes representation of numerous clients in trademark, copyright, trade secret and patent infringement disputes in fields as diverse as computer software development, data mining, industrial coatings, banking, advertising, big game hunting and restaurant operation.
- She has litigated in federal courts from Los Angeles, California, to Detroit, Michigan, to Jacksonville, Florida.

Patricia Clotfelter

- In addition, Pat taught trial skills as an adjunct professor at Cumberland School of Law for many years and currently is active in helping to train Baker Donelson associates in the art of litigation.
- She is a frequent lecturer on litigation topics, including all aspects of intellectual property.
- Pat got her law degree from Vanderbilt University Law School and has her BA in English from the University of Alabama at Birmingham.
- Pat lives in Birmingham, Alabama.

Dr. Julie A. Van Dyke

- Dr. Van Dyke has one patent relating to systems and techniques for linguistically-driven automated text formatting.
- And one pending for implementing cascaded text formatting within electronic publishing and display mediums.



Dr. Julie A. Van Dyke

- Julie investigates the effects of phonological and syntactic memory on reading and language comprehension across the life-span, with a special focus on language-based clinical disorders.
- She also uses magnetic resonance imaging (MRI) and electroencephalography (EEG) to determine the neurobiological basis of skilled and disabled reading.
- The hypotheses for her research involve the ubiquitous role of memory retrieval and its interaction with syntactic knowledge in producing similarity-based retrieval interference.

Dr. Julie A. Van Dyke

- Julie is a Senior Scientist at the Haskins Laboratories which is associated with Yale University.
- She is an Adjunct Professor in the Department of Linguistics and Languages at McMaster University.
- And on the Adjunct Doctoral Faculty for the program in Speech-Language-Hearing Sciences at the City University of New York Graduate Center.

Dr. Julie A. Van Dyke

- Julie has many publications and is considered a leading expert in her field.
- And has received multiple grant supports for her research.
- She has a PhD in Cognitive Psychology from the University of Pittsburgh.
- She has a MS in Computational Linguistics from Carnegie Mellon University.
- And did her BA in Computer Science and Linguistics at University of Delaware.

Dr. Julie A. Van Dyke

- Julie is a descendent of Casper's son John.
- Julie lives in New Haven, Connecticut and has a daughter.
- Julie was born in December, 1968.

Dr. Grant C. Glatfelter

- Dr. Grant Glatfelter is a Postdoctoral Fellow who conducts a wide range of scientific studies on drug discovery.
- Grant's is listed on a patent on drugs while working in graduate school at the University of Buffalo.



Dr. Grant C. Glatfelter

- His patent, US20230052740A1, pertains to the study of drugs that increase melatonin activity in a subject that requires treatment for sleep disorders.
- In his present work, he is studying drugs relating to treatments for addiction to synthetic opioids such as fentanyl.
- He has many publications pertaining to his research into many classes of pharmaceuticals.

Dr. Grant C. Glatfelter

- Grant Glatfelter received his B.S. in Psychology with a minor in Biology from York College of Pennsylvania in 2013.
- Grant completed his Ph.D. in Pharmacology and Toxicology at the University of Buffalo's Jacobs School of Medicine and Biomedical Sciences.
- Currently, Dr. Glatfelter works in the Designer Drug Research Unit of the National Institute on Drug Abuse Intramural Research Program in Baltimore, MD.
- His primarily studies are of the neuropharmacology of emerging new psychoactive substances (NPS) and novel medications of the opioid, cannabinoid, stimulant, and hallucinogen classes.

Dr. Grant C. Glatfelter

- Grant grew up in the York, Pa area and presently lives in Baltimore.
- Born in1988, Grant is the son of Chris T. and Margaret (Suenderhaft) Glatfelter, of West York/Shiloh, Pa.
- Grant has a half sister Kristen Good.
- Grant is married to Naomi (Bryner) Glatfelter who has a Master's in chemistry.
- Grant comes from the line of Casper's son Henry.

Glattfelders in Science



- As you can see, through the years Glattfelders, (no matter the name now) have made major contributions to the world of science through innovation and invention.
- To be featured in the future:
  - Glattfelders in medicine
  - Glattfelders in science education
  - Glattfelders in engineering and science
  - Glattfelders in art, sports and entertainment

A Special Thanks to Those who made this Possible

- Larry Gladfelter for all his hard work with the graphics.
- Special thanks to John Glatfelter, Dr. Pat Donaldson, Dr. Wayne Gladfelter, and Dr. Heather Gladfelter for there helpful input and traveling to Heimwold Park to speak at our reunions.
- Thanks to all those who I was able to speak to on the phone about their love ones patents and careers. Especially Tom Clatfelter.
- Phil Glatfelter for listening to me back in 2019 and taking a chance that this would be a hit.

Glattfelders in Science



- We hoped you enjoyed this presentation.
- If you would like to see more on this subject or the history of the Casper Glattfelder family and it's association go to the website https://glattfelder.us