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## Patents by Inventor Frank E. Young

Frank E. Young has filed for patents to protect the following inventions. This listing includes patent applications that are pending as well as patents that have already been granted by the United States Patent and Trademark Office (USPTO).

### **METHODS OF CELLULAR REPROGRAMMING**

**Publication number:** 20210386791

**Abstract:** Disclosed herein are methods of cellular reprogramming, comprising contacting a cell with HC-HA/PTX3 for a time sufficient for cellular reprogramming of the phenotype of the cell to a different phenotype.

**Type:** Application

**Filed:** November 6, 2019

**Publication date:** December 16, 2021

**Inventors:** Scheffer TSENG, Frank E. YOUNG, Ying-Tieng ZHU, Szu Yu CHEN

### **Precision assembly table and method**

**Patent number:** 6453544

**Abstract:** A precision assembly table and method includes a plurality of rigid bars connected to adjustable support members which can individually adjust the position of the rigid bars above a surface and a frame to create a desired contour. The structure to be assembled, such as a magnetic levitation guideway, is positioned and held in place on top of the rigid bars which have been positioned so as to define a desired contour of the structure and to which the structure will mechanically conform. The position of the rigid bars is monitored and adjusted by a computer to maintain the desired contour while the structure resting on the rigid bars is being assembled.

**Type:** Grant

**Filed:** March 20, 2001

**Date of Patent:** September 24, 2002

**Assignee:** Maglev, Inc.

**Inventors:** Joseph T. Cioletti, Fred J. Gurney, Frank E. Young

**Precision assembly table and method**

**Publication number:** 20010029653

**Abstract:** A precision assembly table and method includes a plurality of rigid bars connected to adjustable support members which can individually adjust the position of the rigid bars above a surface and a frame to create a desired contour. The structure to be assembled, such as a magnetic levitation guideway, is positioned and held in place on top of the rigid bars which have been positioned so as to define a desired contour of the structure and to which the structure will mechanically conform. The position of the rigid bars is monitored and adjusted by a computer to maintain the desired contour while the structure resting on the rigid bars is being assembled.

**Type:** Application

**Filed:** March 16, 2001

**Publication date:** October 18, 2001

**Inventors:** Joseph T. Cioletti, Fred J. Gurney, Frank E. Young

**Precision assembly table and method**

**Publication number:** 20010029654

**Abstract:** A precision assembly table and method includes a plurality of rigid bars connected to adjustable support members which can individually adjust the position of the rigid bars above a surface and a frame to create a desired contour. The structure to be assembled, such as a magnetic levitation guideway, is positioned and held in place on top of the rigid bars which have been positioned so as to define a desired contour of the structure and to which the structure will mechanically conform. The position of the rigid bars is

monitored and adjusted by a computer to maintain the desired contour while the structure resting on the rigid bars is being assembled.

**Type:** Application

**Filed:** March 20, 2001

**Publication date:** October 18, 2001

**Inventors:** Joseph T. Cioletti, Fred J. Gurney, Frank E. Young

**Precision assembly table and method**

**Patent number:** 6202275

**Abstract:** A precision assembly table and method includes a plurality of rigid bars connected to adjustable support members which can individually adjust the position of the rigid bars above a surface and a frame to create a desired contour. The structure to be assembled, such as a magnetic levitation guideway, is positioned and held in place on top of the rigid bars which have been positioned so as to define a desired contour of the structure and to which the structure will mechanically conform. The position of the rigid bars is monitored and adjusted by a computer to maintain the desired contour while the structure resting on the rigid bars is being assembled.

**Type:** Grant

**Filed:** December 12, 1997

**Date of Patent:** March 20, 2001

**Assignee:** Maglev, Inc.

**Inventors:** Joseph T. Cioletti, Fred J. Gurney, Frank E. Young

**Recombinant bacteriophage for heterologous cloning of bacillus microorganisms and method for its production**

**Patent number:** 4886754

**Abstract:** A recombinant bacteriophage, a method for producing and selecting the recombinant bacteriophage and a method for heterologous cloning of DNA are disclosed. The recombinant bacteriophage is produced by ligating genetic fragments encoding a desired genetic trait with DNA from a bacteriophage, incubating with DNA from a second Bacillus microorganism prototrophic for a growth requirement, incubating with a host Bacillus auxotrophic for the growth requirement. Transformed host Bacillus are selected by growing the mixture on a growth medium which does not contain the growth requirement and determining the presence of the genetic trait. The recombinant bacteriophage containing the desired genetic trait is recovered from the host Bacillus by induction. Heterologous cloning can be accomplished by incubating a host Bacillus with the recombinant bacteriophage.

**Type:** Grant

**Filed:** June 3, 1985

**Date of Patent:** December 12, 1989

**Assignee:** The University of Rochester

**Inventors:** Richard S. Graham, Yuko Yoneda, Frank E. Young

**Method of increasing the yield of a product by altering a microorganism**

**Patent number:** 4801541

**Abstract:** A method is described for increasing the yield of a product from a microorganism containing a regulatory gene, by altering the microorganism. The method involves introducing into the microorganism at least one structural gene for the product by lysogenizing the microorganism with a recombinant bacteriophage containing the structural gene.

**Type:** Grant

**Filed:** June 3, 1987

**Date of Patent:** January 31, 1989

**Assignee:** The University of Rochester

**Inventors:** Yuko Yoneda, Frank E. Young

**Asporogenous mutant of B. subtilis for use as host component of HV1 system**

**Patent number:** 4302544

**Abstract:** Asporogenous mutant B. subtilis RUB 331 (ATCC 31578) and a process for using such mutant are disclosed. The asporogenous mutant desirably reverts to sporeformers with a frequency not greater than  $10^{-7}$  reversions per bacterium per generation and meets the requirements of the NIH "Guidelines for Research Involving Recombinant DNA Molecules" for a B. subtilis host component of a Host-Vector 1 system.

**Type:** Grant

**Filed:** October 15, 1979

**Date of Patent:** November 24, 1981

**Assignee:** University of Rochester

**Inventors:** Frank E. Young, Gary A. Wilson, Susan L. Mottice