



2007 Ardsley High School
ARDSLEY, NEW YORK

Patent: [Curb climbing wheelchair attachment](#)



System of attachments that can be fitted to a standard wheelchair to enable the wheelchair user to climb curbs, bumps, or other obstructions.



2009 San Juan High School
BLANDING, UTAH

Patent Title: [Motorized litter transport kits, methods and devices relating thereto](#)



A device that attaches to most types of rescue litters to improve rescue speed and reduce the number of necessary rescue personnel.



2010 Cesar Chavez High School
LAVEEN, ARIZONA

Patent Title: [Physical therapy chair](#)

Fully adjustable motorized chair for individuals who may need mobilization assistance during physical therapy.



2013 Natick High School
NATICK, MASSACHUSETTS

Patent Title: [Multi-component robot for below ice search and rescue](#)



Remotely operated robot for underwater or ice search and rescue.



2014 SOAR High School
LANCASTER, CALIFORNIA

Patent Title: [Alcohol sensing bracelet](#)

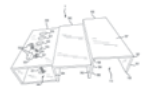
Blood alcohol content detection wristband that uses a miniature sensor.



2014 Benjamin Banneker Academic High School
WASHINGTON, D.C.

Patent Title: [Door security apparatus](#)

Mechanism that allows teachers to remotely lock classroom doors in the event of a lockdown situation.





2015 Concord High School
 WILMINGTON, DELAWARE

Patent Title: [Object detection and removal apparatus](#)



Apparatus to be used in hospital textile facilities that attaches to laundry conveyor belts and detects and removes foreign objects.



2016 Williamston High School
 WILLIAMSTON, MICHIGAN

Patent Title: [Apparatus and method for assisting a user in actuating a locking mechanism associated with a storage device](#)



Device that helps students with autism or neurodevelopmental disabilities open their lockers.



2016 Stockbridge High School
 STOCKBRIDGE, MICHIGAN

Patent Title: [Underwater camera and water quality monitoring system](#)

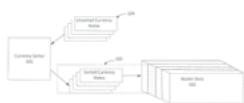


A waterproof camera that captures video and time-lapse photography to monitor water quality.



2017 Poolesville High School
 POOLESVILLE, MARYLAND

Patent Title: [Currency sorting mechanisms and methods](#)

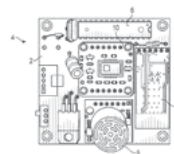


Currency note sorting device that identifies denomination and delivers notes to a wallet with respective, braille marked slots.



2018 SOAR Early College High School
 LANCASTER, CALIFORNIA

Patent Title: [Personal proximity sensor systems](#)



A safety device that can detect the presence of an individual who is nearby or even behind the user.