# U.S. looks at which tech proposals will fly

# Government deluged with ideas for airports, airliners

By Traci Watson **USA TODAY** 

Remote-controlled flights. Bulletproof cockpit doors. Eye scanners at airport gates.

## Air security

As federal aviation officials ponder how to make air travel safer after the Sept. 11 attacks, they've been deluged with more than 30,000 ideas such as these for applying technology to airport and airline security.

Ideas for new safety gizmos and smart security systems have rolled in not just from companies with dollar signs in their eyes. Citizens who are trying to be helpful have also offered suggestions since President Bush on Sept. 27 advocated some technological advances in security as a way of restoring public confidence in says Steve Luckey, head of the secommercial air travel.

And the government is taking them seriously. The Federal Aviation Administration is wading through the proposals it has received and plans to require the airlines and airports to adopt the best ones. The Transportation Depart- that technology can make air travment is doing the same. Bush has el safer, they also dismiss some set aside \$500 million for airlines to spend on security technology, in- gestion for remote-control pilotcluding fortifying jet cockpits.

that are being reviewed:

proposed giving all of its pilots stun ness and affordability. guns, which can subdue assailants with jolts of electricity. Stun guns steps as strengthening cockpit are now banned aboard planes.

ified X-ray machines can look technology to make flying safer, is through clothing to see weapons, not so easy. drugs and other items. The Customs Service uses them to screen some passengers arriving from overseas.

They'd allow pilots to monitor the compression, so most were derest of the plane without leaving signed to swing open or allow a the cockpit. Delta has installed test panel to flip open under pressure. setts institute of Technology. cameras in one of its planes.

Strobe lights and sirens in the tered down. jet that could distract hijackers.

spending more money on people, harder to storm cockpits. such as baggage screeners, can



By Stephen Jaffe, Agence France-Presse

Garvey: Favors 'more aggressive' use of biometric technology.

also say that machines like these can do things people can't.

"Machines don't get distracted," curity committee for the Airline Pilots Association. "They don't get tired, they don't need a break, and they don't need to go to the bathroom. Technology's great."

Although Luckey and other experts share the president's hope suggested fixes, such as Bush's suging, as naive. Other ideas, such as Among some of the other ideas building tamper-proof transponders or ID cards, have provoked ► Stun.guns. United Airlines has disagreement over their effective-

Even taking seemingly simple doors, which Bush advocated as ► Full-body scans. These mod- one of the first steps of applying

For years, the FAA required on the ground to land jets if troucockpit doors to be light enough to break through in case pilots had to be rescued. Doors also had to al-➤ Video cameras in the cabin. low air to pass during a sudden de-Such doors could be easily bat-

After the hijackings, the FAA would be just as vulnerable to ter-Although few dispute that gave airlines 18 months to make it rorists as airplanes are — and to titude or identification codes.

It will take clever engineering to make travel safer, aviation experts design doors that can stop a 250New ideas for airline security

In the wake of Sept. 11, federal regulators are mulling thousands of proposals designed to make air travel safer. Some ideas, such as stronger cockpit doors, already have become law. Most, however, are still on the drawing board.

### Terminal

Iris scanner

Would compare a passenger's iris, which is as unique as a fingerprint, to the image on the passenger's ID card.





Full-body scan A high-tech X-ray that can spot weapons and contraband through clothing.

Better transponders

give details of a jet's

location and identity.

New wiring or software could guarantee that

### Tower

Remote-controlled flight Would allow controllers on the ground to steer a jet to a safe landing if pilots were disabled.



By H. Darr Beiser, USA TODAY

Video cameras

in the cabin

## Cockpit or cabin



installed doors

doors

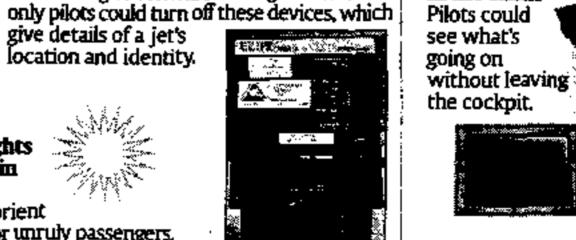
Stun guns for pilots Emits strong shock; would allow pilots to subdue hijackers.

Stronger cockpit Two airlines have

Strobe lights or sirens in the cabin Could disorient

hijackers or unruly passengers.

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By Marcy E. Mullins, USA TODAY

lined with the material used in bulletproof vests.

Reporting by Traci Watson, USA TODAY

pound man yet still give way in

case of emergency, experts say. But

bulletproof vests on all their craft.

It's not clear yet whether the doors

Bush's suggestion that technology

be developed to allow controllers

ble, such as a hijacking, broke out.

"I don't know anybody who's

thought about it hard who thinks

it's a good idea," says John Hans-

man, a professor of aeronautics

and astronautics at the Massachu-

computer hackers as well. Security

Less feasible, experts say, is

wilf meet FAA standards.

they also say it's possible.

prompt desperate hijackers to start says Charles Higgins, head of a get what they want.

In addition, less than half of the So far, the nation's largest airlines have put new locks and bars on nation's commercial fleet is equipped for this technique. Bringcockpit doors as a stopgap measure. Only Alaska Airlines, which ing the fleet up to snuff would cost flies on the West Coast, and JetBlue billions of dollars, experts say. And Airways, which flies mostly out of controllers would need extensive New York's Kennedy International training to handle the task. Airport, have started installing "That's one for the reject bin," doors lined with material used in

says Robert Poole, director of transportation studies at the Reason Public Policy Institute, a freemarket think tank.

able ideas is easy. Much harder is Safety officials say the idea is feasideciding what to do about technol- ble, but they warn that a rushed efogy that has generated both criticism and enthusiasm. For example, Bush has said that the switched off in the cockpit.

Transponders, which are nor- voluntary identification cards. mally kept on during flights, identi-Hansman and others say that fy jets to radar. The Sept. 11 hijacksuch a ground-control system ers turned them off so that ground controllers couldn't see the jets' al-

killing passengers on the plane to newly created division of Boeing that works on security technology.

For example, what would happen if a redesigned transponder shorted out and began sparking? power to devices to prevent fires. Should the transponder be given different safety standards than the rest of the electronics?

And what about the hazards of rewiring the cockpit? Wiring is one of aviation's top safety con-Discarding obviously unwork- led to numerous safety incidents. fort to redo the wiring of thousands of jets could cause trouble.

Critics also have strong grievgovernment would fund research ances about a technology that has on transponders that cannot be won widespread favor from airlines and some security experts: Even the loudest critics don't

Passengers would get one by undergoing a strict background check. Card holders could then breeze through the airport without being subjected to rigorous The recommendation sounds searches. Automated airport scanexperts also fear that the takeover simple enough. But such a step ners would verify cardholders' of an aircraft's flight controls could should be approached cautiously, identity by checking their palms or Contributing: Alan Levin

the irises of their eyes. Both body parts are as unique as fingerprints.

Similar systems already are in

place for passengers entering the Amsterdam airport from abroad. London's Heathrow Airport will soon start a trial of iris-linked ID cards for Americans and Canadians who travel to Britain frequently.

At a congressional hearing last month, FAA Administrator Jane Garvey called this body-based technology, known as biometrics, "one I'd like to see all of us embrace and advance in an even more aggressive fashion."

The Air Transport Association, the trade group for airlines, goes a step further. It says such ID cards could be linked to databases held by the FBI, the Immigration and Naturalization Service and other security agencies. That way anyone who's had any trouble with the law would be stopped before getting on a plane.

"If you don't subscribe to the voluntary approach, you're going to go through a very rigid, invasive search, says Michael Wascom, the association's vice president of communications.

That's precisely the problem, according to opponents.

"People will effectively be coerced into getting these cards to avoid intrusive, sometimes demeaning searches," says Barry Steinhardt, associate director of the American Civil Liberties Union.

Besides, say Steinhardt and others, the purpose of the cards could easily be undermined. It's so In modern jets, pilots can shut off easy to concoct a new identity that criminals could get a biometric ID card under a fake name and legal history, Steinhardt says. Others point out that such a system probably wouldn't have prevented the Sept. 11 attacks.

"Seventeen of the nineteen Sept. cerns, and work on jet wiring has 11 terrorists were ordinary, lawabiding citizens until after they were on the planes," says James Wayman, director of the National Biometrics Test Center at San Jose State University. "They had Social Security cards and frequent-flier numbers. How could any biometric device have stopped them?" doubt that some technologies can improve safety. The ACLU, for example, doesn't oppose the use of biometric ID cards to bar access to areas off-limit to the public. Such cards are in use at O'Hare International Airport in Chicago.

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