## BUSINESS



Which Cartoon Character Does The U.S. Open Logo Look Like?
A.J. Carter,

D3 has dreamee up hijackers" worst nightmare a device inat thweats them rium the tower
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## INSIDE STORIES



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As Convention Starts,
Firm Faces
Challenges
From U.S


Government
And Sam Wyly
D5

## PULSE

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Though inflation is up slightly in the metro area, it remains under control. Figures. show increpse in overall prices during 12-month period ending in the month shown.

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By Manny Topol starf writre

$\prod_{\text {And }}$HAT IF THE PLLOT of your plane wag mur. dered by terrorigta or incapacitated by a hearty attack?
And what if ground controllers could turn on video cameras by remote control to view the incident, autory matically take over control of the plane, lock the cabin doors, dump fuel and make an empergency landing?
Sounde implausible?
Well, aviation experts are interested in just such a plan-and its code name is TOMCAT. Raymond Joao, an inventor who is ald a
and former engineer for the old Sperry Corp, in Lake Success, has been awarded a patent for a syatem that could control planestrucke or boats by remote control to prevent terrorigt acts or other accidenth right at the start.
The invention could greatly enhance fight security, according to aviation experts, who say there is no such security system remotely coriparable. And while there are many isaues to be resolved, from building a prototype to gaining the acceptance of pi. lots, some experts see promise.
Mary Schiavo, former inspector general of the. U.S.
Department of Transpartation; said, 1 th an interest Department of Transpartannon; sac, There's no operation
ing patent and a great idens.
al system right now that does all of that.". 14 patAs an inventor, Joad, 4 , he has worked on deatigns of elactranic warfare and strategic defense aypems Of edof ware for Sperry in Lake Success and Loral Filectronics. He worked on an underwater suamarine project for the British navy and on a guided missile frigate for the U.S. Navy.
He was head of the Intellectual Property Rights $/$ Technology group at the Mineola-based law firm of Meltzer, Lippe, Goldstein \& Schisael.' Joan, whglives WW Westchestar, has since left the firm.
He kegan thinking about such a remote-cantrol affety ystem in the early 1990s when carjackings \%erp e concarn.
N Naw his plans have been adapted to face the new kind of thareats avident since the terxorist attacke of Sept. 11 .
Tooao's invention would begin with onboard surveillance ta detect hijacking attempts. Under plans filed ithithe patant office, his system would be able tarm no y y dop fameras and listening devices pithin the on ind and cabin of an airliner, and dead-bolt
 the plane thalf, and then land it - all from a gmound contepilcenter, basically using the Internet. It pould even donloy a parachute to ease the landing. The maund poptrol would be operated over dedicatdiphone line (much like the Kremlin-White House emergency "hot line") making it neerly impqusible



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$\square 8$
sut technology caught up to his idea. For example Internet television cameras developed during that Chme. "Before I develop one now, I could buy one or partrier with some company that makes them and Wive them make it adaptable for use in the system."
'An important element in Joan's system is the ability to tho keep track of the critical in-flight black box Information. There would be a steady stream of such yhformation, both technical and voice information, fiecorded at a remote area away from the aircraft. In case of an accident, or other incident, information Would always be quickly available, and there would ge H10 need to ever again search for the black box y 4 , ot ack boxes of the plates that struck the World Trade Center buildings hatve yet to be found.)
3 Schiavo, also a professor of aviation, said that the overument has concerns about air safety other than with hijacked airliners; She added, I know Tie's [Joao's] thinking big planes and saving people's lives, but my personal opinion is where we're going to have the next round of problems - and the industhy afid the government have absolutely no idea what to do about it - Is with smaller [private] PlaneE.
"You could simply pack a tiny jet with explosives and fly it through the Capitol and you could do as much damage as a 767," Schiavo said. If you put such an override capability on smaller planes, then you've oblved a huge probletn, because we have no idea what to do about private planes."
Joab's system is designed to do just that. His override stotem could divert the emall plane away from cortith tineas and land it sefely.
Joae's interest in such a system was sparked by the 1999 crash of the chartered Learjet which killed pro golfer Payne Stewart and five others on board.

Stey fithe thothers were incapacitated by the loss of cabine presidure and failure to obtain oxygen. Military gilote gent to observe the unresponsive craft reported thit the cockpit windows were iced up, butt thertwas nothing they could do. Joao's systemeburd have monitored the pressure and oxygen levels in the cabin and deployed oxygen before and then evin latd the plane
A remote fystem might have also been useful in Che came of EgyptAir 990, which crashed into the'sea 60 milies wouth of Nantucket Island. The National Tranispirtation. Safety Board recently concluded that a co-pilot's "manipulation of the controls" caused the crash that killed 216 people.
Shentagedid that federal agencies tried to imple ment cotuing eystems years ago, such as video surveillarid, but encountered strong opposition from pi-

oft for mome time" ${ }^{\text {s }}$ phoponent of video in the cockTransoortation IS she said, because the National ever sifice En [safety] Board has been a proponent coutd hate eaved on Had we had it, wo probabl planet because we would have known what was going on."

want to power to do it, so they would essentially work with the university and let the university help them devel op it." ${ }^{n}$

Somb elemente of Joao's system are currently
fi available, such as auto-pilot and the video surveil lance.

But fone of the elements had been invented when Joao first started to work on his invention years ago,

