

Hijacking Protection Developed By Bendix

The application of advanced technology to the transportation industry takes many forms at Bendix Corp. of Southfield, ranging from brakes for bicycles and airplanes to fuel injection systems for autos.

The full spectrum of Bendix activities also includes: an X-ray inspection system for luggage which could curtail airplane hijackings; a computer to determine routes for Bendix transit systems; a 15-acre outdoor laboratory; and a mass transit system scheduled for delivery this fall.

A PORTABLE radiographic detection system designed to inspect airport luggage, briefcases and parcels quickly, is now available from Bendix.

The new system uses a low-dose, short-pulse X-ray to detect illegal guns, explosives, and other concealed contraband.

Called the Bendix-Ray Inspection System, it instantly produces an X-ray image of a container and its contents on a television screen.

The radiation dose at the parcel is low enough to permit multiple inspections to be performed without affecting the contents. Even luggage with photographic film can be inspected without damaging the film.

The system has been described as an important tool for airport security personnel, law enforcement officials, and others in public safety and security business.

With the system, an extremely low dosage X-ray pulse is all that is needed to penetrate boxes, suitcases, flight bags and crates. Even aluminum and steel cases can be penetrated easily.

Routine inspections require only three to 10 seconds. In 40-billionths of a second, an X-ray pulse penetrates the parcel and is converted to light which is then intensified.

Although the image appears instantaneously, a manual control enables the image to be retained for several minutes if desired. The operator can also activate a built-in zooming device to get

greater image detail of any portion of the parcel.

THE NATION'S first fully-automated, computer-controlled test facility for future transit systems is operating now at 15-acre outdoor laboratory in Ann Arbor.

The Bendix laboratory consists of an intricate network of surface track and a computer control center designed to permit transit engineers to develop and test advanced command and control techniques for driverless transit systems of the future.

The installation was built by Bendix's Aerospace Systems Division for the division's transportation systems activity, according to Charles J. Weathered, director of the activity.

The transportation control laboratory allows developing and testing of automated control systems for a wide range of transit vehicles, guideway concepts, system configurations, route layouts, and service levels.

Three electronically-powered vehicles are being used to demonstrate the various maneuvers, including demand-response and schedule service.

In demand-response control, a passenger summons a vehicle by pressing a call button, then directs the vehicle to his destination by

pressing the appropriate button on board the vehicle.

The central computer routes the vehicle off and on the main line to the appropriate stations, maintaining eight-second headway separation, and deciding the proper merging maneuvers for vehicles re-entering the main line.

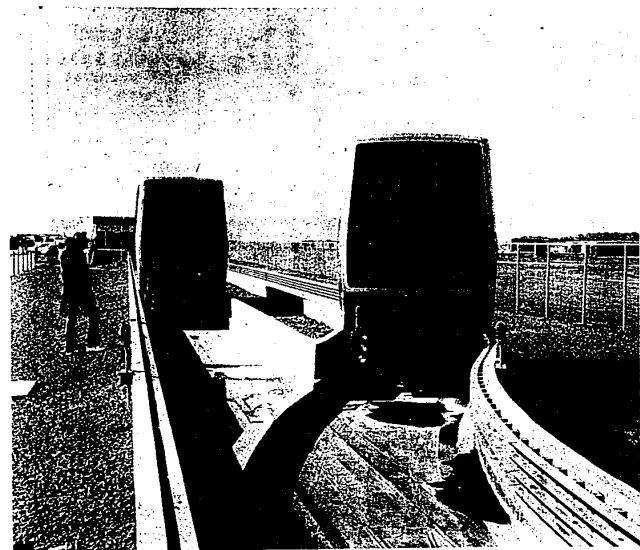
The guideway is 5,500 feet long, including a 2,000 foot inner loop main line. Buried cables provide guidance and electronic switching.

A "PEOPLE MOVER" system—in which a computer decides the fastest, safest route to stations along the line—was demonstrated by Bendix at the recent Transpo '72.

The demonstration "personal rapid transit" (PRT) system was built under a \$1.5 million contract from the U.S. Department of Transportation's Urban Mass Transportation Administration at Dulles International Airport in Washington, D.C., for the first U.S. International Transportation Exposition.

The prototype features two air-conditioned, electrically-powered vehicles which can carry 31 passengers apiece at speeds up to 20 mph along a 1,200 foot guideway.

The PRT was built by the Los Angeles, a Bendix subsidiary.



AUTOMATED TRANSPORTATION — One of the two vehicles in the Bendix "personal rapid transit" (PRT) system at Transpo '72 at Dulles International Airport switches past the second

vehicle during a demonstration run. The two air-conditioned, electrically-powered vehicles will carry 31 passengers apiece at speeds up to 20 miles-per-hour along the 1,200-foot guideway.

Hawaii \$429

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 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your third day in Hawaii at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

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 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your fourth day in Hawaii at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

WEDNESDAY - 5th DAY
 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your fifth day in Hawaii at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

THURSDAY - 6th DAY
 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your sixth day in Hawaii at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

FRIDAY - 7th DAY
 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your seventh day in Hawaii at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

SATURDAY - 8th DAY
 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your eighth day in Hawaii at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

SUNDAY - 9th DAY
 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your ninth day in Hawaii at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

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 The morning flight to Mexico City is the start of your vacation. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

2nd Day—Sunlight
 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your second day in Mexico at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

3rd Day—University Tour
 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your third day in Mexico at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

4th Day—High Divers at the Beach
 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your fourth day in Mexico at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

5th Day—Acapulco
 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your fifth day in Mexico at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

6th Day—Scenic Drive to San Juan Capistrano
 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your sixth day in Mexico at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

7th Day—Drive to Tepic
 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your seventh day in Mexico at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

8th Day—Mexico City
 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your eighth day in Mexico at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

9th Day—Return Home
 A day of relaxation and fun. Enjoy the sun and sea with a relaxing vacation. Spend your ninth day in Mexico at a resort from which you can see the most beautiful view of the island. Enjoy the sun, the sea, and the sand. Relax on the beach, swim in the ocean, and enjoy the view. This is the perfect start to your vacation.

*** MEXICO . . .**
TOUR PARTY
 COMPLETE
 7:30 p.m., AUGUST 23, 1972
 OBSERVER NEWSPAPERS
 36251 SCHOOLCRAFT LIVONIA



LUGGAGE INSPECTION — A system that uses a low-dose, short-pulse x-ray to detect illegal guns, explosives and other concealed contraband in airport baggage, has been developed by Bendix's Aerospace Systems Division in Ann Arbor. The portable radiographic system is operated by one person who can be trained in minutes.



COMPUTERIZED 'PEOPLE MOVERS' — Wayne Bales programs the computerized "people mover" system built by Bendix. The vehicles are routed to their destinations by the computer which decides the fastest, safest route. Passengers summon a vehicle and direct it to their destination by pressing buttons in much the same manner an elevator is operated.

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