

*The*

# **ADT TRANSMITTER**

vol. IX. no. 2 • FEBRUARY • 1937



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## • LETTERS •

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### ***Serious Fire Averted***

American District Telegraph Co.:

We want to express our complete satisfaction for the very prompt manner in which you handled the automatic signal from our Sprinkler System in connection with the fire on the fourth floor of our building, occupied by the Baltimore Shirt Company.

As a result of your prompt handling of this situation, we believe that a very serious and disastrous fire was averted and instead of what might have been a very serious situation, only a small loss occurred, and the fire was confined to a very small area where it originated.

Your prompt and efficient service and attention is evidence of the importance and value of properly supervised sprinkler system.

MEYER STRAUSS  
*President*

Strauss Brothers  
Baltimore, Md.

### ***Avoids Worry and Headaches***

American District Telegraph Co.:

We wish to express our appreciation for the fine work your men did in capturing the three burglars who entered our store on the night of January 28.

The alarm was answered promptly and the burglars captured before they had an opportunity to do any damage to our store. We are grateful that your men were able to make this capture without injury to the culprits or themselves.

We have enjoyed your service for several years and have always found it entirely satisfactory. For a few dollars each month we can have this fine protection and avoid a lot of worry and headaches.

SAM H. STERCHI  
*Manager*

Sterchi Music Company, Inc.  
Terre Haute, Ind.

### ***Prevents Interruptions***

American District Telegraph Co.:

Since installing your burglar alarm system service three years ago in our plants in Salt Lake City, Ogden and Provo, a number of robberies have been attempted, but the fast response of your roundsmen and the police prevented a loss in each instance.

Your service undoubtedly prevented a serious loss last Saturday night when an organized gang entered through a basement window and then pried a steel shipping room door loose in our Salt Lake City plant.

We feel that your service is highly efficient and an asset to modern business, because it prevents delays and interruptions in our daily routine both from robberies and damaged goods, which is often the result when a gang of hoodlums gains access to a building.

A. B. SMITH  
*Manager*

Utah Wholesale Grocery Co.  
Salt Lake City, Utah

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## THE A-D-T TRANSMITTER

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Vol. IX      FEBRUARY, 1937      No. 2

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A monthly news-magazine of outstanding events and features concerning fire, burglary and holdup. Published monthly by the American District Telegraph Co., 155 Sixth Avenue, New York, N. Y.

R. K. HYDE, Editor

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To insure delivery of your copy of THE A.D.T. TRANSMITTER each month, kindly notify the editor of any change in address.

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### **A.D.T. PROTECTION SERVICES**

The American District Telegraph Company (A.D.T. System) is the only nation-wide organization specializing exclusively in supplying Central Station electrical fire and burglary protection services. Established in 1873, A.D.T. Services have acquired an unequalled reputation in safeguarding lives and property against the hazards of fire and theft.

A.D.T. Services protect property values in excess of twenty billions of dollars, not including cash and securities in principal banks in all parts of the United States, in the thirty-two Federal Reserve Bank buildings, and in the United States Treasury and Mints, all of which are A.D.T. Protected.

The A.D.T. organization includes more than 3,000 specially trained employees who serve upwards of 27,000 subscribers. A.D.T. Central Stations are located in all principal cities of the United States. Listed below are the A.D.T. Central Station Protection Services.

**A.D.T. SPRINKLER SUPERVISORY AND WATER-FLOW ALARM SERVICE:** Automatically summons fire department in case of fire or dangerous leaks. Electrically detects and reports any impediment to normal functioning of sprinkler system.

**A.D.T. "AERO" AUTOMATIC FIRE ALARM SERVICE:** Automatically detects fire and reports exact location to fire department.

**A.D.T. WATCHMAN SUPERVISORY AND MANUAL FIRE ALARM SERVICE:** Any deviation from watchman's routine instantly and automatically reported to the Central Station. In emergency, an armed and bonded A.D.T. patrol immediately investigates. Also provides Manual Fire Alarm Boxes which summon fire department direct to premises.

**A.D.T. BURGLAR ALARM SERVICE:** Reports unlawful entry—an armed and bonded A.D.T. patrol immediately investigates, with police cooperation when necessary.

**A.D.T. HOLDUP ALARM SERVICE:** Instantly summons armed assistance in case of attack by bandits or other emergency.

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## • EDITORIAL •

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### ***Everybody's Business . . .***

"Had the local alarm system operated properly, or outside supervisory service been attached to the [sprinkler] equipment, the loss would have been negligible."

This significant statement was made in a report of a recent fire in a Chicago business building. The fire, which started shortly after midnight between a sheath ceiling and the floor above, finally opened three sprinkler heads on each of the two floors.

There was no watchman service. The sprinkler was equipped with a local alarm system—but it *failed to work* because the clapper on the alarm bell was "frozen." As a result of this failure, heavy and unnecessary water damage was suffered.

But in addition to the danger of failure of unsupervised systems because of improper maintenance, there is another hazard, equally serious, inherent in the very principle of local alarm systems. For even if the alarm does operate, it often is confused with other warning signals, or those who hear it do not know what it means and therefore take no action. This essential weakness of the local alarm system lies in the fact that *what is everybody's business is nobody's business.*

### ***On the Cover***

When fire breaks out, the watchman who discovers it must summon the fire department immediately. Any delay may mean the difference between a trivial loss and disaster.

"With help at his fingertips," the watchman who is A.D.T. supervised need not leave the building to hunt for a fire alarm box, nor need he depend on the telephone, with the possibility of misunderstanding and misdirection. At convenient locations throughout the building he has A.D.T. Manual Fire Alarm Boxes which enable him to summon the fire department instantly and accurately.

The value of A.D.T. Watchman Supervision in such cases is convincingly illustrated by three typical instances recorded in this issue.

# The A.D.T. TRANSMITTER

VOL. IX

FEBRUARY, 1937

NO. 2

## SIX BILLION DOLLARS IN GOLD

*New Depository at Fort Knox, to House Half of Uncle Sam's Treasure, Uses A.D.T. Protection*

One day last month a caravan of armored trucks rolled along the streets of New York toward the Pennsylvania station. Alongside tramped a detail of Uncle Sam's soldiers. People on the street, accustomed to the unusual, paid little attention. Had they been able to look inside, however, their eyes would have opened wide at the sight of one of the largest hoards of gold ever to be transported through the city.

This was only a repetition of what was going on in a number of places throughout the country. Uncle Sam's store of gold is being moved from various points in the United States to the new U. S. Depository at Fort Knox, Ky. Gold is being taken in special armored trains from New York, San Francisco, and elsewhere, to this fortress of steel and stone in the heart of Kentucky, where it is farther away from attack and the possibility of seizure by an enemy in case the United States ever becomes involved in war. This building, which will house more than half of the nation's treasure, has every protective feature known to modern science, among which A.D.T. equipment plays an important part.

The building, a white stone structure, really is a series of vaults, and three persons, each holding a separate combination, are required to open the twenty-five-inch depositories. This mass of stone and steel, under constant guard of the U. S. Army, is considered impregnable against any form of attack, yet nothing has been overlooked to give an instant alarm in case of attack.

The electric protection systems installed by the A.D.T. include sound detection devices similar to those used in the vaults of the U. S. Treasury and in

hundreds of banks throughout the country. A hammer blow on the outside of the vault wall instantly sets off sensitive alarm devices and summons armed guards to investigate. An elaborate checking system, which is part of the A.D.T. Supervisory System, maintains a check on the guards' patrols, and gives warning in case of failure to report. Other devices of this system provide a check on the opening and closing of doors. In case of holdup or any other emergency a general alarm system sounds a warning throughout the buildings.

The Depository is now in full-fledged operation. When shipments from various parts of the country are completed, the Fort Knox treasure chest will house more than six billion dollars, believed to be the largest store of gold ever to be permanently concentrated in one place.

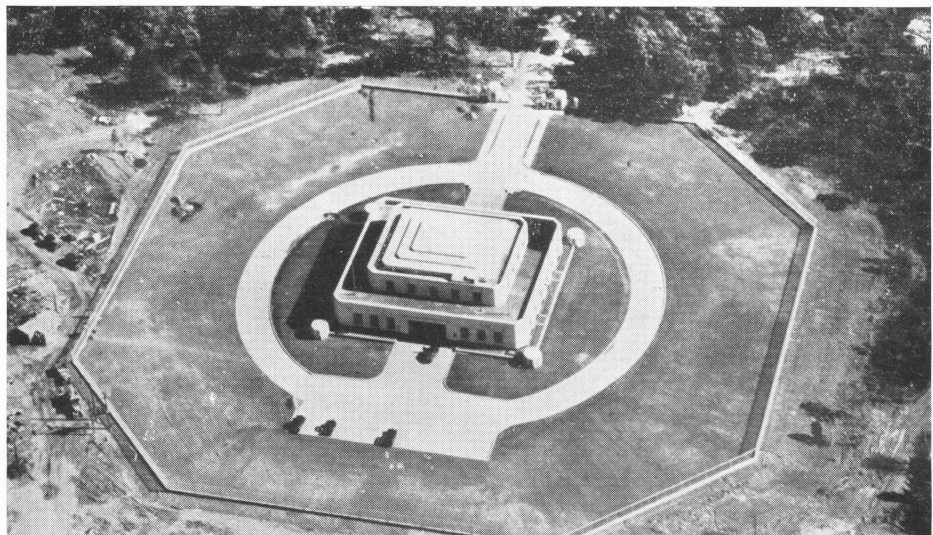
## NERVOUS GUEST

*Burglar Betrayed When He Offers Diamond Ring to Pay Hotel Bill*

Shortly before 6:00 a.m. on January 1, a very nervous looking man shakily registered at the Hotel Martin, in Sioux City, Iowa. He insisted on being shown to his room at once, and said he would pay the bellboy. Upstairs, he said he had no money, offered a diamond ring in payment.

In the meantime, the neighborhood was being searched for a burglar who had attacked the nearby Thorpe Jewelry Store, and who had fled as police and guards arrived in response to an A.D.T. alarm. Just as a police officer came into the hotel to ask the night clerk if he had seen the fugitive, the bellboy came down to report the strange behavior of the nervous guest.

Putting two and two together, the officer went upstairs to question the man, found that he had six diamond rings in his possession. He was taken to the police station, where he confessed.



**SIX BILLION DOLLARS IN GOLD**—More than half of Uncle Sam's gold holdings will be stored in this impregnable fortress recently completed at Fort Knox, Ky. A.D.T. alarm devices will instantly announce any attempted attack

Wide World

## BURGLARY

### "WOODEN BARS"

*Ex-Convict, Trapped by Alarm, Expresses Disapproval of A.D.T. Protection*

Uttering impolite maledictions upon people who "protect their stores with those — — wooden bars," one Earl Noel, a graduate in bad standing of San Quentin Penitentiary, was taken struggling to the police station on December 25 after an unsuccessful attempt to burglarize the Max Atkin Candy & Tobacco Co. in Oakland, Cal.

Since the "wooden bars" were responsible for Mr. Noel's downfall, his strong feeling of disapproval of A.D.T. protection is understandable. He had forced a rear window, easily breaking the electrically wired wooden bars forming the protective screen, not realizing that in doing so he instantly caused an alarm at the A.D.T. Central Station.

When Guards H. M. Kugler, T. W. Brydon and police arrived, Noel fled to the rear of the store, barricaded himself behind some barrels and defiantly challenged his pursuers: "Come and get me."

The guards and police did not wait for a second invitation. Closing in on the burglar from all sides, they soon had the situation under control.

### UNLUCKY

*Footprints in Snow Lead to Burglar's Hiding Place*

Had there not been snow on the ground in Detroit on January 24, an agile burglar who broke into the Kraetke Brothers Tool and Die plant probably would have made good his escape despite the A.D.T. alarm.

Arriving at the plant two minutes after a burglar alarm came in at the Central Station, police and Guard A. Mapes found one of the side windows broken. They searched the building, found no trace of the intruder inside, but discovered another broken window at the rear.

Outside this window a trail of footprints in the snow led around the side of the building into a blind alley. Half-

way up the alley the footprints suddenly ended.

Since the only way the burglar could have gone was up, a police detail went to the roof of the building, where they found the fugitive hiding behind a ventilator. He explained that when he heard the police enter, he had fled through the rear window and climbed up the side of the building to the roof, where, forgetting about the snow, he thought himself safe from discovery.

The burglar had broken open several boxes containing valuable tools, but did not have time to remove anything.

### ROUTED FROM RESIDENCE

On two nights in succession, A.D.T. Residential Burglar Alarm Protection led to the capture of burglars who broke into the untenanted residence of Mrs. Stephen B. Elkins in Washington, D. C.

The first alarm, on January 7, resulted in the capture of one burglar after a chase across the roof tops to an adjacent building.

In the attack on the following night, guards and police responding to the alarm were compelled to make a systematic search of the rambling forty-room house to find the intruders. One was concealed behind some barrels on the first floor, another was hiding in a closet in the laundry.

In both cases the alarms were caused when the burglars forced A.D.T. protected windows.

### NO LOSS

*Show Window Burglar "Caught With Goods" by Radio Police*

"Calling all cars! Calling all cars! Go to the Central Liquor Store, 533 King Street. Burglary."

At 1:22 a.m. on January 25, this alarm went on the air over police short wave in Charleston, S. C. Within one minute, two cruising police squads arrived on the scene and captured a show window burglar in the act of removing merchandise from the window. The burglar had smashed the window with an automobile jack, causing an alarm which was immediately transmitted by the A.D.T. Central Station to the police radio dispatcher.

A.D.T. Guard S. J. Anderson, who also was dispatched to the premises, helped the police in subduing their captive. Five bottles of liquor which the man had removed from the window were recovered. The burglar had a car parked at the curb, and said he had planned to load it up with the contents of the window. He was held on charges of house-breaking and larceny.

### BURGLARY BRIEFS

CHICAGO, ILL., Jan. 15: Two burglars, captured on January 13 in the act of stealing plumbing fixtures in an untenanted building owned by H. C. Knoke & Co., were sentenced to sixty days in the House of Correction. They had caused the alarm when they broke in through an A.D.T. protected window.



Wide World  
*NO INSURANCE CAN EVER BRING BACK the irreplaceable scientific exhibits destroyed when fire raged through the Museum of Natural History at Syracuse University on January 19. Loss was placed at \$500,000*

BOSTON, MASS., Jan. 1: A burglar attempting to hide under a stack of merchandise was captured at Berman's Women's Wear Store, as the result of an alarm caused when he broke in through the A.D.T. protected skylight.

LOUISVILLE, KY., Jan. 18: A watch and a necklace were recovered from a show window burglar captured at the Vic Lorch & Sons jewelry store as the result of an A.D.T. alarm.

CHICAGO, ILL., Jan. 10: Two extremely precocious burglars, aged eight and nine years respectively, were captured at 1:00 a.m. in the act of looting the cigar department at the Goldblatt Bros. department store. The juvenile culprits said that they had entered the store during business hours and hidden under a bed in the furniture department.

ERIE, PA., Dec. 31: Milton Fehlman, the burglar captured at the Presque Isle Wholesale Grocery Co. as reported in the December A.D.T. TRANSMITTER, was sentenced to not less than two years in the Allegheny County Workhouse.

KANSAS CITY, MO., Jan. 10: Trapped in the store of the B. Gorman Furniture & Clothing Co. when police and guards responded to an A.D.T. alarm, a burglar hid behind some clothing. He was found after a thorough search of the premises.

UNLOCKED DOORS: In seven instances during January, A.D.T. burglar alarms led to the discovery of doors left unlocked.

BURGLARS CAPTURED as the result of A.D.T. burglar alarms during January—31.



SALLY RAND poses pleasantly with helmet and hose at a recent Firemen's Convention in Memphis

## FIRE

### OILY RAGS

#### *Firemen, Summoned by A.D.T., Aid Sprinklers in Combating Spontaneous Ignition Fires*

Spontaneous ignition, most insidious of fire causes, was responsible for two recent fires in A.D.T. protected premises. In each instance, A.D.T. alarms brought the fire department to the scene in the quickest possible time.

One of these fires occurred in a building owned by the C. C. Bailey Co., Boston, Mass. The blaze, which started in a pile of oily rags, opened one sprinkler head. Instantly, the A.D.T. Waterflow Alarm System automatically summoned the fire department. The fire was quickly extinguished, and the sprinkler system turned off in time to keep water damages to the minimum.

In the other case, at the Barcalo Manufacturing Co. in Buffalo, N. Y., a spontaneous ignition blaze started in the pillow department on the third floor. Unsupervised, the sprinkler system was unable to give the alarm automatically.

However, as soon as the fire was discovered, an employee summoned the fire department direct to the scene by pulling an A.D.T. Manual Fire Alarm Box. When the fire department arrived, six sprinkler heads had opened. Reinforcing this deluge with a pressure hose, firemen got the blaze under control before it could spread to other parts of the building.

### ROASTED PEANUTS

A workman at the Northwest Warehousing Co., Minneapolis, who had trouble with a peanut roasting machine one day last month, got more roasted peanuts than he bargained for when he lit a match to see what was wrong. The match ignited a sack of peanuts at his feet, and the blaze quickly spread to other sacks stacked on the floor, opening one head on the A.D.T. supervised sprinkler. The fire department, summoned by the resulting waterflow alarm, quickly brought the blaze under control.

### ALERT EMPLOYEE

#### *Plugs Leak in Dry Valve Sprinkler System Until Arrival of Fire Department*

His attention suddenly distracted from his work by a hissing noise above him, an office employee of the Dependable Freight Co., St. Paul, Minn., looked up, saw that a sprinkler head in the dry valve sprinkler system had sprung a leak.

Realizing that the ominous hiss of the escaping air would be followed in a few seconds by a destructive gush of water, he leaped upon a table, clapped his hand over the leak, and called to a fellow employee to pull one of the Manual Fire Alarm Boxes associated with the A.D.T. supervised sprinkler system.

As this manual alarm came in at the Central Station, an automatic alarm indicating low air pressure also was received. The fire department was immediately dispatched, and arrived in time to turn off the sprinkler system before enough air had escaped to trip the valve that would have released the water. There was no damage.

### PROMPT ALARMS

#### *Losses Kept to Minimum at Fires Discovered and Reported by Supervised Watchmen*

Watchmen "with help at their fingertips" were able to turn in prompt and accurate alarms on discovering fires which broke out during the past month in a number of plants employing A.D.T. Watchman Supervisory and Manual Fire Alarm Service.

In one case, at the Concrete Engineering Company, Inc., Rosedale, Kan., the watchman discovered the fire, which was attributed to an overheated flue, when burning debris began falling on him from the ceiling. He immediately pulled the nearest A.D.T. Manual Fire Alarm Box, and the fire department was able to extinguish the blaze before it became serious. Damages were placed at only \$150.

A fire at the Regensteiner Corporation, printers, Chicago, Ill., on January 8, also reported by the A.D.T. supervised watchman, was put out with a loss of only fifty dollars.

A few days before, another watchman

at the same concern had used the A.D.T. Manual Box to summon emergency help when he heard water running on a floor above. Investigating, he found that a fire in a pile of rags had opened two heads on the sprinkler system, which is unsupervised. In this case, the loss was kept to \$200.

### ODD ACCIDENT

Thousands of bags of coffee and tea narrowly escaped a destructive soaking at the Maxwell House Division of General Foods in Jacksonville, Fla., when a sprinkler pipe broke recently.

A.D.T. supervised, the sprinkler system itself automatically reported the leak. On receipt of the waterflow alarm at 9:12 a.m., the Central Station immediately notified the plant and dispatched the fire department.

Employees quickly located the leak on the third floor and shut off the water. They found that a bag, entangled in a machine, had wrapped itself around a section of the sprinkler pipe, snapping it off. Plant officials stated that, thanks to the prompt discovery of the odd accident, damages were too negligible to be worth reporting.

### FIRE BRIEFS

OMAHA, NEB., Jan. 8: An A.D.T. waterflow alarm at the Creighton University Building led to the discovery of a leak in the sprinkler system, caused by the freezing of a pipe in an unheated part of the building. The condition was remedied before damage resulted.

CHATTANOOGA, TENN., Jan. 22: A dust fire caused by sparks from a boiler, reported by an A.D.T. Manual Fire Alarm Box, was extinguished without damage.

CARELESS SMOKERS caused four fires in A.D.T. protected premises during the month. In no case did the damage exceed seventy-five dollars.

KANSAS CITY, MO., Jan. 20: A fire started by the grounding of a high voltage power line at the Kansas City Stockyards Co. was extinguished by the fire department, summoned by an A.D.T. Manual Alarm Box. There was no damage.

DETROIT, MICH., Jan. 14: A fire was discovered at 12:08 a.m. in a cloak room at the Detroit Gear and Machine Co. The fire department, summoned by an A.D.T. Manual Alarm Box, extinguished the blaze without damage.

NEWARK, N. J., Jan. 20: Sparks caused when a steel shafting was dropped on a concrete floor ignited a quantity of celluloid dust at the Rubberset Co., brush manufacturers. Fire department, summoned by an A.D.T. Manual Fire Alarm Box, extinguished the blaze without damage.

## WATCHMEN

### BRUTAL ATTACK

#### *Watchman Gets Quick Assistance After Cruel Beating by Thieves*

Watchman Carl Nielsen at the American Packing & Provision Co., Salt Lake City, was just finishing his 8:30 p.m. round on January 11, when he surprised three intruders in the hog sheds, butchering a hog. Without warning, the men leaped upon him, cruelly beat him, and tossed him unconscious into the snow outside with the temperature down below zero.

Brought to by the shock of the frigid air, Nielsen managed to drag his way back to the building, and pulled the A.D.T. Emergency Police Call Box. The police, who arrived in four minutes, immediately took the injured man to a hospital. An A.D.T. guard was stationed at the plant until a substitute watchman was provided.

This is the second time that Nielsen has had reason to be thankful for A.D.T. supervision. Several years ago he and another watchman at the plant were attacked and severely beaten by a gang of five intruders. The prompt assistance brought by A.D.T. when their signals became overdue was credited with saving their lives.

### HELP IN NEED

Painfully burned by a sudden back draft while firing the boiler, Watchman Coppizzi at the Lion Fur Dressing Co., Hoboken, N. J., telephoned the A.D.T. Central Station for assistance on the night of January 15. A guard was immediately dispatched, and patrolled the premises while the watchman went to a doctor. After receiving first aid treatment for his burns, which, while painful, were not serious, the watchman returned to the plant and resumed his duties.

### WATCHMAN BRIEFS

CHICAGO, ILL., Jan. 14: Suddenly taken ill and unable to complete his 3:30 a.m. round, the watchman at the Phoenix Metal Cap Co. received prompt assistance when an A.D.T. guard responded to the delinquency.

Jan. 13: Overcome by a spell of dizziness, the watchman at the Lord & Bushnell Co., lumber, telephoned to A.D.T. for assistance. A guard was dispatched to the premises and took the man home.

SAN FRANCISCO, CAL., Jan. 20: At a lecture which he gave before the student body of the College of Puget Sound, President J. L. Long of the Atlas Foundry Co. chose as his subject "A.D.T. Protection." The lecture was accompanied by a demonstration of the A.D.T. Watchman Supervisory devices.

NEWARK, N. J., Feb. 9: The Newark Safety Council has again inaugurated its Watchmen's School which proved so successful last year. Sessions will be held once each week for four consecutive weeks and certificates will be awarded to watchmen who complete the course. A number of well-known fire prevention authorities have been secured to address the meetings.



*AGAIN, THE HUMAN ELEMENT—The employee who discovered this fire thought he could put it out with a hand extinguisher. When he discovered his mistake it was too late—and this St. Paul, Minn., plant suffered a \$50,000 loss*

## THE ROSTRUM

*Devoted to Open Discussion of Protection Problems*

# ELECTRIC EYES STAND GUARD

*Light Ray Alarm Systems Perform Miracles of Protection. Installed by A.D.T. at New York's Free Port*

By Paul M. Farmer

*Supervising Engineer,  
American District Telegraph Co.*

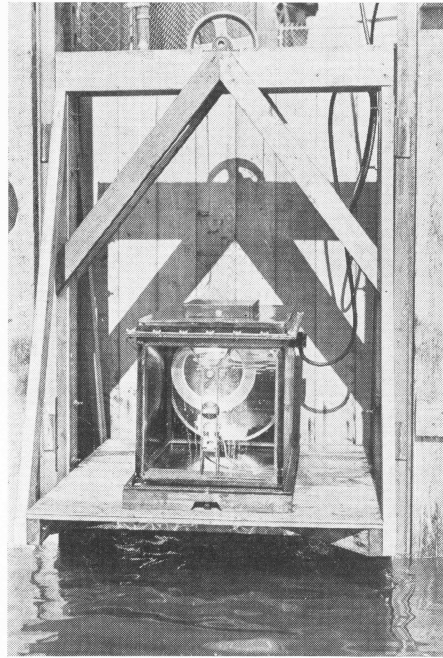
A comparatively recent development, the "Electric Eye," is coming into such common use that there are few persons who have not marveled at some of the miracles it performs. Today the Electric Eye has many applications, such as opening doors, ringing bells, counting units in factory production lines, counting cars and pedestrians in traffic, timing speeds at race tracks . . . and latest, but not least, is its application in the field of protection.

The secret of the Electric Eye is the photoelectric cell, a light sensitive device carrying a current of electricity. Any change in the intensity of the light cast upon this cell immediately affects the flow of current, thereby making it possible to provide electrical control of many devices.

In Electric Eye protection, the equipment consists of a source of light which projects a beam across an area to a receiving device containing the photoelectric cell. Any interruption of the light beam instantly affects the cell and results in the sounding of an alarm.

A.D.T. engineers, who pioneered in the application of the Electric Eye to burglar alarm protection, have just completed one of the most outstanding installations of this type. This installation, which has attracted much attention, is at the recently completed Foreign Trade Zone, or Free Port, at Stapleton, Staten Island, N. Y.

The term "Free Port" applies to a port or zone where commodities from other countries can be received, handled, assembled and reshipped without becoming subject to duty. With the vast amount of merchandise of all kinds to be handled at this port, burglary and smuggling are ever-present dangers.



Acme

*TO TRAP SMUGGLERS—This is the light source of the A.D.T. Electric Eye Alarm System protecting the Free Port at Staten Island, N. Y. By an automatic elevator device, the beam is always kept at the surface level of the water*

A.D.T. engineers, at the request of Army officials, and after other plans had been discarded, conducted experiments to determine in what way the Electric Eye could be utilized to provide the unique protective service required. They evolved a light beam barrier that extends over the water a distance of half a mile, which no intruder can pass without detection.

This equipment is larger, more positive, more sensitive than any previously used. The light ray can be projected at least fifteen times farther than in ordinary burglar alarm installations, and is capable of piercing dense fog.

A visible beam is employed, marking the customs boundary as definitely as though built of steel and concrete. Any object, such as a ship or even a small boat, intercepting this light boundary sets off a siren, and the policing agencies go into action. Powerful searchlights sweep the surrounding water and fast motorboats pursue the intruders.

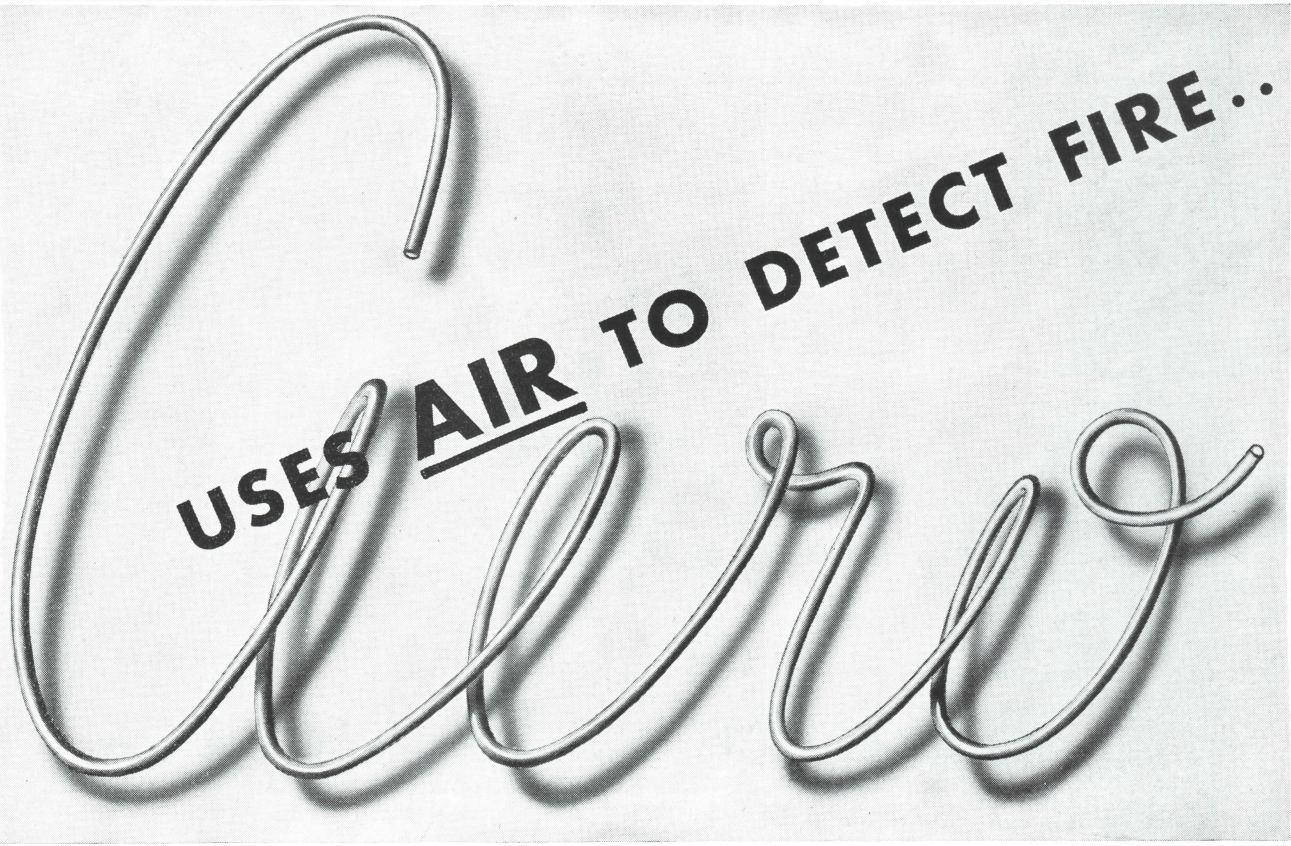
This Electric Eye is not affected by light from any other source, but responds instantly whenever its own beam is interrupted. The beam, which passes directly over the water, is automatically adjusted to the proverbial changes of "time and tide." The "eye" and the light source, raised and lowered by a float to match the rise and fall of the tides, is kept constantly just above water level. There is also an arrangement to raise the beam when the water becomes choppy.

The photograph on this page shows the temporary installation put in to give the "eye" a chance to "make good," and to prove its protective qualities. This it has done to the satisfaction of all and the installation will now be made permanent. It will then have the appearance of a large searchlight.

Applied to standard Burglar Alarm systems the Electric Eye is a "natural." It is ideal for protecting large areas and open spaces which cannot readily be protected with ordinary Burglar Alarm equipment. In installations of this type, the light beam is invisible.

In standard installations this Invisible Ray is projected to the Electric Eye. A burglar, ignorant of the existence of the ray, unknowingly walks through the beam and is trapped. The ray may be projected, in such systems, up to 200 feet, and up to 150 feet for outdoor use, where fog, smoke, etc., may be encountered. In some cases, through the use of mirrors, the beam is reflected back and forth across the protected area, creating a network of positive protection.

Although larger and more sensitive equipment was necessary for the protection of the new Free Port, it shows the almost limitless applications of the Electric Eye in protecting property. When it is explained that, under favorable conditions, the beam can be projected for several miles, it requires little imagination to visualize its far-reaching possibilities.



**A** pneumatic system, the Aero Automatic Fire Alarm uses AIR as its fire detecting element. Lengths of small-bore copper tubing, no bigger around than a match, attached to the walls or ceiling, are the vital part of the physical equipment. When fire starts, the air in this tubing expands, causing the alarm. Since the action depends on the *rate at which the temperature rises*, Aero need not wait for a predetermined "dangerously high" temperature. It detects fire *when it starts*, and automatically summons the fire department direct to the scene.

The greater speed of this pneumatic, rate-of-temperature-rise system in detecting fire is proved by Aero's performance record. During

the past 10 years, fire losses in Aero protected properties have averaged less than three cents per hundred dollars of insurable values.

The Aero Automatic Fire Alarm System is installed, maintained and constantly supervised by A.D.T. It is available with Central Station Supervision in 350 cities; elsewhere, with direct-to-fire-department connections. No capital investment is required for equipment or installation. Descriptive booklet sent on request.

*Other A. D. T. Central Station Fire Protection Services include* Sprinkler Supervisory and Waterflow Alarm Service; Watchman Supervisory and Manual Fire Alarm Service.

**AERO AUTOMATIC FIRE ALARM**

Controlled Companies of **AMERICAN DISTRICT TELEGRAPH COMPANY**  
155 SIXTH AVENUE • NEW YORK, N. Y.

**A NATION-WIDE PROTECTION SERVICE AGAINST FIRE, BURGLARY AND HOLDUP**

