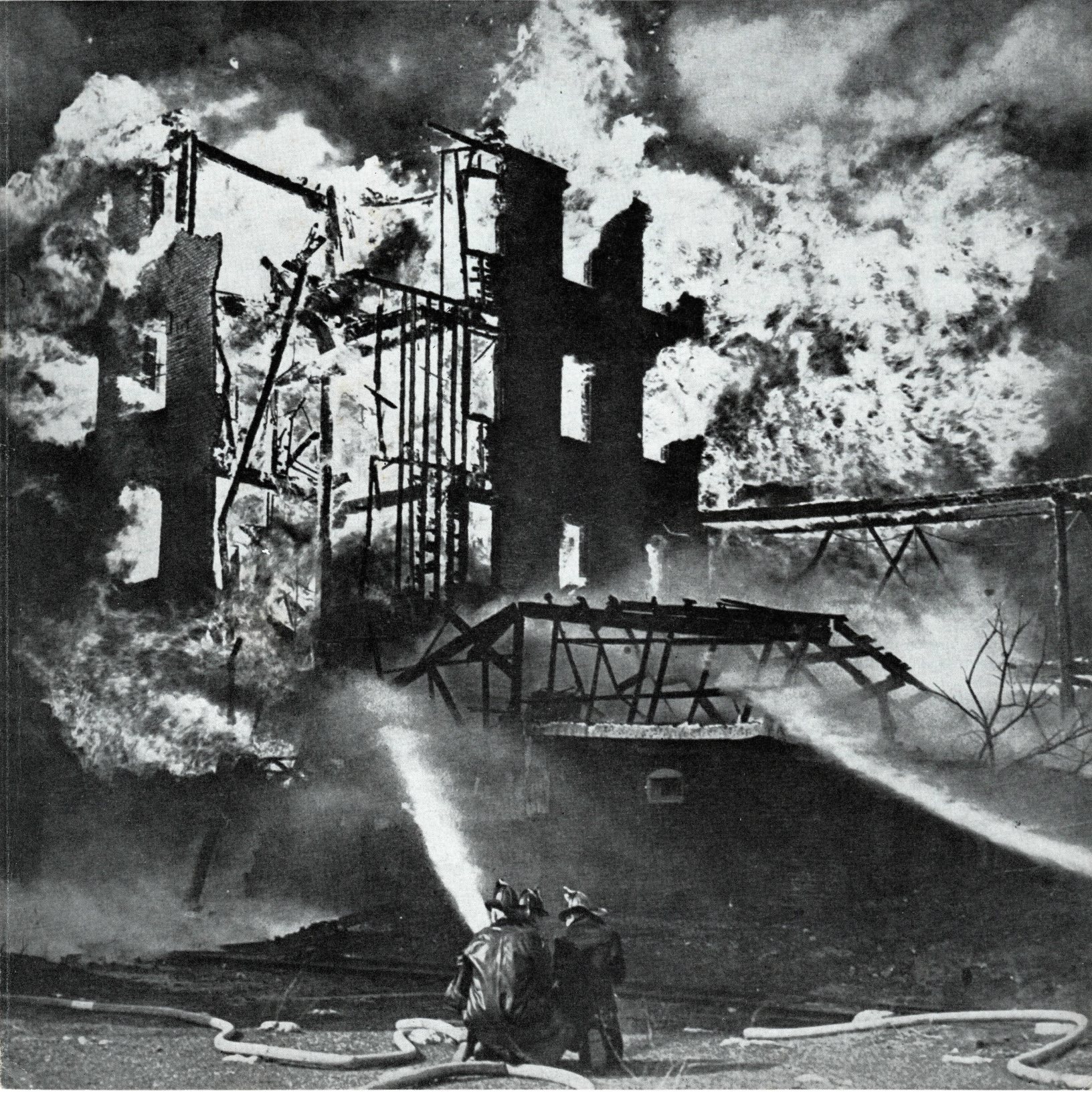


The

ADT

TRANSMITTER

vol. XX. no. 6 — JUNE — 1948



• LETTERS •

Thousands Saved

AMERICAN DISTRICT TELEGRAPH CO.:

Please accept our unreserved approval of the performance of your alarm service, which prevented the loss of approximately \$3,000 which was locked in our safe when thieves threatened it a few days ago.

The thieves were captured before they could accomplish their purpose, and are now lodged in jail awaiting sentence. As a result, I go home evenings with peace of mind, assured that everything in my building is safe under the protection of ADT.

I would not consider continuing in business without this valuable protection.

ABRAHAM H. NATCHEZ

Industrial Iron & Metal Co.,
Flint, Michigan

Hard-to-Beat Combination

AMERICAN DISTRICT TELEGRAPH CO.:

Thank you for your letter of February 16 and especially for your prompt action in the fire at 213 West Fayette Street.

The combination of a sprinkler system and ADT service is evidently hard to beat.

GEORGE B. SIMMONS

The Calvert Building &
Construction Company,
Baltimore, Md.

Knew Their Jobs

AMERICAN DISTRICT TELEGRAPH CO.:

We are taking this opportunity of expressing our unreserved approval of the efficient manner in which the attempted burglary on our premises on January 4 was handled by your ADT representatives.

The efforts of your personnel were perfect; they were gentlemanly, and operated with a smoothness in the apprehension of the criminal that indicated they knew their jobs well.

We are happy to be numbered among your subscribers.

CHARLES ZUTES

Zutes, Inc.,
Rochester, N. Y.

A NATION-WIDE ORGANIZATION

The American District Telegraph Company (A.D.T.), founded in 1873, is the only nation-wide organization specializing exclusively in the manufacture, installation, maintenance and operation of electrical supervisory and alarm systems for protection against fire, burglary and intrusion, watchman supervision, etc.

A.D.T. Central Station Protection Services are available in more than 350 cities and towns in the United States. In this type of service the protection system in the subscriber's premises is connected to an outside A.D.T. Central Station which provides continuous electrical supervision, transmits alarms to the fire and police departments and investigates trouble and other emergency signals.

Outside of Central Station areas, A.D.T. installs protection equipment for owner operation, with visual or audible signals within the protected premises and, when desired, direct-wire connections to police or fire departments. In exceptionally large establishments, systems may be installed to operate through owner-operated proprietary central stations on the premises.

Whether the system operates through an A.D.T. Central Station or is of the local or proprietary type, A.D.T. provides periodic inspections, systematic tests and complete maintenance by an organization trained and experienced in this type of work. *Without this specialized attention there is little assurance that any protective signaling system will operate when an emergency arises.*

A.D.T. Protection Services include the following systems:

SPRINKLER SUPERVISORY AND WATERFLOW ALARM: Summons fire fighting forces when sprinkler operates. Maintains a continuous automatic check on shut-off valves and other points controlling water supply.

AERO AUTOMATIC FIRE DETECTING AND ALARM SYSTEM: Detects fire and summons fire department automatically.

WATCHMAN SUPERVISORY AND MANUAL FIRE ALARM: Investigates any failure to signal Central Station. Includes Manual Fire Alarm Boxes to summon the fire department quickly and accurately.

BURGLAR ALARM: Automatically detects unlawful entry or intrusion and initiates immediate investigation.

HOLDUP ALARM: Summons police in case of attack by bandits and in other emergencies.

Also: Automatic Fire Control for Air Duct Systems; Heating System and Industrial Process Supervision and other miscellaneous supervisory services.

• EDITORIAL •

Hit the Jack Pot

The fire hazards that exist in the average mercantile or industrial establishment and the need for automatic fire detection are no better illustrated than by the following true story recently sent us by John Ashmead, assistant secretary of the Phoenix Insurance Company of Hartford, Conn.

Clint S. Wilson, special agent for the North British and Mercantile Insurance Co., Ltd., and Harry E. Jordan, special agent for the Hartford Fire Insurance Company, were one of twenty-six two-man teams of Connecticut Field Club members working with the local Chamber of Commerce, property owners and city officials to uncover mercantile fire hazards in the city of Norwich, Conn.

All one morning the two men worked diligently tying red tags where conditions needed correction: telling property owners what they could do to make their buildings safer; occasionally calling for a visit by the uniformed firemen so that they too could see the conditions uncovered—and then, toward the end of their stint, came the unbelievable.

In the act of inspecting a cellar under one of the town's mercantile buildings, they observed smoke curling up from a pile of cardboard. They discovered, to quote the Norwich, Conn., Record, "that a lighted electric light bulb, at the end of a drop cord, lay against the cardboard in such a manner as to ignite the board. They found also that the cardboard was scorched and about to burst into flames. The fortunate discovery of the potential outbreak, according to Mr. Learned (of the Norwich Chamber of Commerce), no doubt prevented what might have been a serious fire."

On the Cover

Two factories and several other buildings were leveled in this Rockford, Ill., fire on April 16. Fanned by high winds a grass fire in a vacant lot swept out of control. The ensuing blaze raged through a six-block area of the city's factory district, causing damages estimated at hundreds of thousands of dollars, and injuring two persons. *Acme Photo*

THE A. D. T. TRANSMITTER: A monthly news-magazine of outstanding events and features concerning fire, burglary and holdup. Published monthly by the American District Telegraph Company, 155 Sixth Avenue, New York 13, N. Y.—R. K. HYDE, Editor . . . Edited and distributed for the information of employees, subscribers and other interested persons. All articles printed are the individual opinions of the authors. To insure delivery of your copy of THE A. D. T. TRANSMITTER each month, kindly notify the editor of any change in address.

The ADT TRANSMITTER

VOL. XX

JUNE, 1948

No. 6

SOLVE SERIES OF BURGLARIES

Police and Alarm System Combine to End Depredations of Youths Employing Slingshot in Raids on Chicago Stores

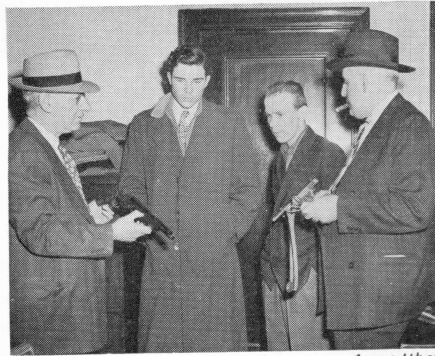
An ancient weapon, a slingshot, and a modern protection device, a burglar alarm, figured prominently in the probable solving of thirty Chicago burglaries when police arrested two alleged thieves after investigating an alarm received from Brentano's bookstore on April 14.

The beginning of the end of an ingenious but foolhardy scheme to burglarize stores without detection, started when the ADT Central Station received an alarm from the Brentano store at 3:08 a.m. Guards and police, who were immediately dispatched to the scene, found a one and a half foot hole in an unprotected show window and entered to investigate.

In the basement they found Robert Richardson, 22 years old, who emerged from his hiding place with his hands in the air and cried, "Don't shoot, I'll give up!" Richardson was not so cooperative when questioned at the detective bureau, however, but a search of his clothing revealed a voter's registration card, which led detectives to search his room at a near-by hotel.

At the hotel, the detectives placed under arrest Charles Turner, 21, reputedly a friend of Richardson's, but who denied being an accomplice. A search of Turner's room proved more revealing. Detectives found a sawed-off shotgun and a suitcase filled with shoes. Richardson's room yielded a .45-caliber automatic pistol, .45 and .38-caliber cartridges and a slingshot.

The slingshot, a stout forked contrivance of rubber, leather, metal and tape, was used, according to detectives, to propel bolts and stones in night raids on stores. "One man would break a window from across the street, sprint away,



Acme Photo

VISIONS OF PRISONS — fill the minds of Robert Richardson and Charles Turner as they are confronted with the weapons of their lawlessness at police headquarters. Turner, at 21, has already been in reform school, a St. Louis workhouse, and has served a two-year penitentiary sentence for auto theft

and wait to see what happened," the detectives said. In this manner, they determined if the place had burglar alarm protection.

They ran into a snag in their attack on ADT-protected Brentano's, however. In this case, detectives said, Richardson kicked in an unprotected glass in the front door, but disturbed an alarm device on an inside door. The resultant signal to the Central Station revealed the presence of an intruder and eventually led to the arrest of the pair who, for two weeks, had harassed merchants in the Loop District.

The slingshot linked the two with thirty recent Chicago store burglaries. The striking feature of each, police pointed out, was the use of the weapon to smash store windows. The two culprits, it later developed, had served workhouse terms together in St. Louis in 1944.

STICK-UP STYMIED

Fortified by the knowledge that help could be summoned quickly, C. E. Larsen, manager of the Provident Loan Company, Seattle, outwitted a masked man who attempted to hold up his office on May 4.

Larsen was waiting on a woman customer when a tall man entered. A minute later, when the manager looked up, he saw that the man was wearing a gray mask of the type used at masquerades and that he was pointing a pistol in Larsen's direction.

Sizing up the situation in a flash, Larsen dropped behind the counter, promptly actuated an ADT Police Call Device, and shouted: "Get him!" to a friend who was visiting the office.

The surprised stick-up man, obviously aware that an alarm had been sent, dashed out of the building. Police, who arrived in less than two minutes, made a quick search of the neighborhood, but could find no trace of the intruder.

SKYSCRAPER OUTBREAK

Flames from a fire which was visible for miles badly damaged a 57th-floor office in the Empire State Building, New York, on April 7.

The outbreak occurred from an unknown cause in the suite and stockroom of Ciba States, Ltd., chemical exporters. A watchman discovered the blaze after hearing an explosion and notified the fire department at 8:30 p.m. through operation of an ADT Manual Fire Alarm Box.

Firemen carried 300 feet of hose up on an elevator, connected to a standpipe in the 57th-floor hallway and quickly extinguished the fire.

The loss to the building was estimated at \$4,000. The exporting firm adjudged its property loss to be approximately \$5,000.

BURGLARY

SLIGHT OVERSIGHT

Burglars Balked by Invisible Beam In Attempt to Beat Burglar Alarm

The old adage, "the longest way 'round is the shortest way home," didn't hold true for a habitual criminal and his accomplices, who attempted to circumvent the burglary protection on the premises of Victor's Tuxedo Shop, Los Angeles, on April 17.

Aware that the clothing store was protected by a Burglar Alarm System, the determined thieves went to a great deal of trouble to avoid the detection devices. Their first move was to cut a hole in the roof. Then they dropped through the opening to the top of some shelving from which they were able to descend to the floor by way of a ladder.

Their success was short-lived, since almost immediately they passed through the beam of an ADT Invisible Ray Device. Police and ADT guards, dispatched at 1:13 a.m., made a speedy search of the premises and took into custody one Henry Ruiz, a parole violator with a long record of arrests.

The culprit, who was found hiding in a lavatory, refused to name his accomplices, but it was evident from the size of the hole in the roof and the discovery of a kit of burglars' tools that the job had not been attempted single-handed.

The speedy arrival of the police and guards obviously had frightened off the culprit's partners in crime. An investigation revealed that none of the stock had been disturbed.

DANGEROUS GROUND

A wary individual who did his utmost to burglarize the Famous Department Store in Los Angeles on April 23, was fortunate only in removing himself from the premises in the nick of time.

The thief, who knew there was a Burglar Alarm System on the store, hid inside until after closing time. Then he carefully tip-toed to the Burglar Alarm Switch. He didn't know, however, that he had passed through the beam of an



Henry Ruiz
His Pals Deserted Him

ADT Invisible Ray device. He didn't know either, that by trying to turn off the Burglar Alarm System, he had sent still another signal to the Central Station.

A minute later he heard police sirens—and he knew. Frantically, he smashed the glass from a fire escape door and made a mighty hasty exit. He had been able hurriedly to grab a few inexpensive trinkets, but it is doubtful that they were worth the wear and tear on his nervous system.

RETURN TICKET

Just sixty seconds after the receipt of a burglar alarm from the Rogers & Company jewelry store in Dayton, Ohio, on April 24, police and ADT guards apprehended a young man as he stood in front of a broken show window, his pockets bulging with stolen watches.

The astonished thief, who gave the name of Robert Charles Newman, smashed the west display window of the store at 5:07 a.m., breaking the protecting foil and causing an alarm at the ADT Central Station. One minute later he was being taken into custody.

At police headquarters it was discovered that Newman was a paroled prisoner. He confessed that he was responsible for several other show window lootings and was promptly returned to serve out his term in prison.

STOPPED BY SHOTS

Barking pistols and the crash of breaking glass added excitement to the capture of a burglar trapped inside the wholesale grocery establishment of David Lombardy in Cleveland, on Sunday, April 11.

Responding to a burglar alarm transmitted at 3:17 p.m., police and ADT guards surrounded the building when they found a front door forced open. The officers heard a movement inside and ordered the intruder to come out with his hands up.

Instead, the man broke through an upstairs window and attempted to jump to a canopy. A policeman fired at him, inflicting a slight flesh wound. He surrendered immediately. Upon being questioned, the man claimed that two accomplices had been with him in the building but had fled when they heard the police cars.

UNLUCKY BREAK

An ADT Invisible Ray Device installed in a dress house in St. Louis, proved a valuable second line of defense on April 10 when an intruder broke through a hallway wall to enter the premises.

The intruder, sensing the vulnerability of the wall, cut through it easily, but inside he walked through the beam of an Invisible Ray Device, and the efforts he had expended to break through the wall went for naught.

The speedy arrival of police and guards caused him to make a hurried exit before he had time to lay hands on any of the merchandise.

ROUGH SAILING

An agile 42-year-old seaman made a supreme but futile effort to avoid capture by jumping to the roof of an adjoining building after police officers cornered him on April 15 in the premises of Butler Bros., shirt manufacturers, in Baltimore.

The culprit climbed a fire escape to enter the building. At 9:55 p.m. he transmitted a burglar alarm by opening a protected window on the second floor. A few minutes later the police were on his trail and after following his gyrations took him into custody.

TELLTALE COATTAIL

Prospective Jailbird Hiding Like Ostrich Proves to Be Easy Game

James D. McKenna, Jr., age 23, a probationer from Rumford, Maine, was arrested at gunpoint on April 18. It was necessary, however, for James to make a complete about-face to find it out.

When he broke into the building of the Bogey Beverage Co. in Springfield, Mass., at about 8:30 p.m., he set off the ADT Burglar Alarm System. In less than two minutes responding police officers and ADT guards were on hand to search the building. It was quite obvious that the intruder was still on the premises. A desk drawer was open, the phone off the hook, and a large plate glass window had been smashed.

Officer Arthur Cardinal turned his flashlight on a door and saw a man's coattail sticking out from behind it. Drawing his gun he commanded McKenna to back out of his "hiding place" with his hands up.

At police headquarters he unfolded another tale—of woe. He admitted having broken into two other stores the same night. Sadly he told them he had come to town about two months ago from Maine where he was on probation for attempting to steal an automobile. He said he had recently been evicted from his rooming house because he couldn't pay the rent, and furthermore he was still flat broke.

FIRE

FLASH FIRE FELLS TWO

Employees Suffer Severe Burns In Paint Spray Booth Explosion

Two employees working near a spray booth in the plant of the Central Architectural Iron Works, Chicago, were severely burned about the head and arms on April 19 as the result of an explosion when a heavy concentration of vapors ignited from an unknown cause.

Twenty-nine sprinkler heads fused as the suddenly released heat spread across the room, causing an ADT waterflow alarm which called the fire department into action. The sprinklers extinguished



Acme Photo

GRAIN-FED FLAMES — gave firemen a hard time in Philadelphia on April 22, when fire broke out in the Greer Brothers hay, grain and feed establishment. One fire fighter was injured by flying glass as the intense heat burst the windows, and a partner of the firm was burned trying to rescue two horses that perished in blaze

the fire in the room while the firemen ran hose lines to put out a blaze on the roof where the flames were making fast headway.

The injured men were quickly taken to a hospital where it was expected that they would recover. The damage to the plant, caused chiefly by water, resulted in a loss estimated at \$20,000.

SPEEDY ALARM SAVES PLANT

Fire which broke out on April 10 in a hung ceiling over a first-floor office of Arpin Products, Inc., Orange, N. J., might have wreaked heavy destruction if the outbreak had not been promptly detected by the Aero Automatic Fire Alarm System.

Fire-fighting forces, summoned automatically at 12:18 a.m., attacked the blaze as it broke through to the second floor. After a stiff battle the firemen, led by Captains Lutz and Smith, finally won out and confined the outbreak to the office area. Prompt use of tarpaulins and other protective devices prevented heavy damage to office equipment.

DEEP-SEATED

Residents of a Washington, D. C., apartment house were roused from their beds at 2:55 a.m. on April 24 by the arrival of fire apparatus called to extinguish a blaze which started in an overstuffed chair in a living room on the fourth floor.

Occupants of the apartment tried to handle the blaze themselves but, failing to do so, notified the desk clerk who operated an ADT Manual Fire Alarm Box. It was an easy job for the firemen, who subdued the flames in short order. The loss was \$500.



International News Photo

LIGHTNING STARTS DEPARTMENT STORE FIRE — Flames pour from the windows of the John W. Bressmer Store, Springfield, Ill., after the building was struck by lightning at the height of an electrical storm on May 2. The interior of the store was completely gutted and most of the stock was destroyed

FIRE AT ST. PATRICK'S

Five hundred worshippers at evening service in St. Patrick's Cathedral, New York, remained undisturbed on May 17, while firemen extinguished a blaze in the famous church.

The outbreak, which occurred from an unknown cause in a storage room of the sacristy, was immediately detected by the Aero Automatic Fire Alarm System. Firemen, notified by the Central Station, entered a side door and put out the flames with hand extinguishers.

Only slight smoke penetrated to where the congregation was seated, and the service was continued as the firemen finished their work and retired.

RATS BLAMED FOR BLAZE

"Rats eating phosphorous poison," was given as the probable cause of a fire which broke out on April 19 in the mail order room of the Robert Nicholson Seed Company, Dallas, Texas.

The blaze started at 5:23 a.m. on a workbench, but before it could make much progress four sprinkler heads fused and extinguished the flames. Water continued to flow, but it was soon shut off by firemen responding to an ADT waterflow alarm.

The loss, caused chiefly by water, was slight, considering the nature of the business.

ORGANIZATION

'JACK' HUSMAN HONORED

Officials Pay Tribute to ADT Vice President on Golden Anniversary

One of ADT's best known and well-beloved personalities, Vice President John L. Husman, celebrated the completion of fifty years of outstanding service on April 30.

In honor of the occasion, Mr. Husman was tendered a luncheon at the Hotel Pennsylvania, attended by Company officials and headquarters executives, at which he was presented with a handsome and suitably engraved watch.

A highlight of the event was a warm message from retired President C. C. Johnson, in California, who expressed his regrets at not being able to attend in person to honor his old-time friend and collaborator. His message said, in part, "Jack's great contribution to the present proud position of ADT is worthy of the highest praise and I take this feeble means to send him my congratulations and affection."

After modestly blushing through the praise and plaudits of President Ward and the reading of many affectionate congratulatory messages by Vice President Gaston, "Jack" rose to his full six-



John L. Husman

feet-four and proceeded to outline his reactions. As usual, his personality and ready wit stole the show. He made an honest confession that he had prayed for a case of mumps in order to have a valid alibi for not being put in such a spot, and said: "I never thought anyone could be as good as you say I am, but you have just about convinced me. Thank you, one and all, for the many nice things you have said about me, and have done for me. This occasion will always remain vivid in my memory.

"My trip, from 1898 to 1948, is replete with pleasant memories, and this seems to be the opportune time to thank the entire organization for the splendid cooperation received. I, for one, am a bit sorry that the half-century of continuous service is at an end, but if our most able management is willing, I still feel able to carry the ball for many years to come, before being benched."

Mr. Husman's unusual career began on a May day in 1898 when he strode into a Western Union office in Minneapolis and said he was looking for some hard work. He was promptly obliged with a job digging post holes and toting 250-pound spools of wire.

Five years later he was made general foreman for ADT. He advanced rapidly, and in 1920 Mr. Husman was called to the Executive Office for special assignments on public relations. His outstanding record of accomplishments throughout the country in the following years was climaxed by his election to the office of vice president of ADT in 1928.



Press Association

JUST BEFORE ROOF FELL — Firemen pour water into blazing interior of plant occupied by Chicago Streamlite Corporation, manufacturers of automobile trailers, which was totally destroyed on April 7. The fire started in the paint department when sparks from a welding torch exploded a can of paint primer

THE ROSTRUM

Devoted to Open Discussion of Protection Problems

TO SMOKE OR NOT TO SMOKE

The Chief Endeavors to Say Yes and No to a 'Burning Question' Which Currently is Vexing Many Employers

By PAUL W. KEARNEY

"O.K.," said the general manager as the Chief summed up the results of his monthly inspection, "I'll see that these things are taken care of today. And now I want some advice from you: At our last management meeting there was quite a lively discussion about revoking our No Smoking rule in the plant. Do you think that would be wise?"

The Chief frowned and stared for a while at his bony knuckles. "That's a hard one to answer," he said finally, "in a plant like yours where there's no hazard from vapors, solvents and the like. Perhaps the best answer I could give you is that the Ford Motor Company has just revoked the No Smoking rule that had always been in effect.

"Of course, the insurance companies contend that a large number of our industrial fires are due to careless smoking. That's one reason why many firms do not permit it . . . yet I know of concerns in this city whose employees smoke on the job that have fewer fires than others where they're not allowed to.

"The reason is simple . . . and you can find it in your own place here. The fact that you prohibit smoking doesn't mean that there isn't smoking by a long shot. And I've always felt that the most dangerous smokers are the ones who sneak a puff now and then in some secluded place . . . and suddenly have to get rid of the butt when they hear somebody coming.

"We had a pretty lively blaze downtown last year from this cause. A guy left his machine and went down the hall for a smoke. Presently he heard footsteps. Not wanting to be caught, he opened a door near him, flipped the butt into the room and went on his way. Unfortunately, that live cigarette landed in a barrel of excelsior—but the dope who threw it didn't give a hoot!

"Yes, the sneak smokers are bad

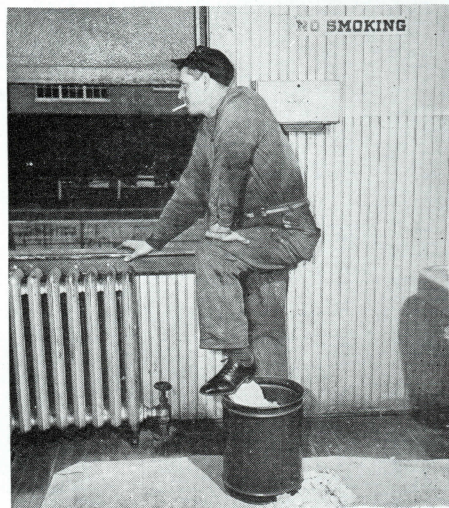
medicine. I remember that during the war I visited a big powder plant to see some new ideas in automatic protection. Inside those gates you not only couldn't smoke—they made you give up all your matches before you entered. The only place you could smoke was in the cafeteria which was outside the danger zone, yet even there they had electric lighters.

"You wouldn't think, would you, that you'd have to sell the No Smoking idea to men in a place packed with sudden death by the trainload? Yet the second day I was there they caught a guy who not only lit a cigarette in the restricted area but actually tossed the lighted match into some dry grass!"

"Good Lord!" ejaculated the G.M.

"Nothing happened," assured the Chief, "because the fire brigade was right on the job. But it gives you some idea of what human nature is like.

"That's why I've always felt," the Chief continued, "that it is better to have smoking in the open—with plenty of foolproof receptacles around for butts and matches—in any departments



Three Lions

HIGHLY HAZARDOUS — Many disastrous fires in mercantile and industrial establishments have been attributed to employees "sneaking a smoke"

where there are no inherent hazards. The man who is smoking in plain view of other smokers is not so likely to do anything dangerous. For that reason I would ban smoking in your storerooms and other sparsely populated locations.

"Of course, there are plants where any half-wit can see that smoking is out of the question—an oil refinery, for instance. And, in my book, there should be absolutely no smoking in retail stores, either by employees or by customers. But even in many dangerous establishments it is quite possible to set aside smoking rooms or 'bull pens' or whatnot where workers can go for an occasional smoke without any real risk. A great many places do that and keep everybody happy!

"Last but not least, I think the weightiest point on the pro side of the question here is the fact that you have supervised sprinkler protection. I've noticed that a good many plants which now permit smoking, base their decision mainly on the fact that they have sprinklers, than which there is no better antidote for the careless butt.

"In such a situation, you can put a stiff penalty on smoking in any unprotected area and make it stick because the men will see the logic of it. I think that you will find the employees themselves will take care of any violators.

"Of course, you've still got to keep plugging away on the Be-Careful-With-Your-Smoking theme, because smokers certainly do some dumb things. Why, just the other day I was in my doctor's office and he swung around in his chair and emptied his pipe into the wastebasket. It wasn't two minutes before a tongue of flame shot up out of the basket and singed his pants!

"However," the Chief concluded as he reached for his cap, "I go back to my original statement that, where it's feasible, smoking in the open is far safer than smoking on the sly in some out-of-the-way nook. If I were running this plant, I'd permit smoking in areas where there is no material that will easily ignite. Because, whether you know it or not, there's plenty of smoking going on around here all the time, rule or no rule. And while I wouldn't say that all smokers are nitwits, it certainly seems that a heck of a lot of nitwits are smokers! And those are the guys who should smoke where they can be seen!"

A Quarter Century of Service

This month we are proud to present the second half of the roster of folks who as of May 31, 1948, wear the diamond emblem in token of twenty-five years or more of faithful service to ADT and to those whom it is privileged to serve. These men and women symbolize the loyalty, spirit and ability of a great, effective team. Through public tribute to them, we are happy to honor all of the members of the ADT organization.

Newark, N. J.

F. EGAN, Plant
E. A. KAVANAGH, Oper.
*J. KREJCI, Oper.
G. LEROUX, Oper.

Newark, Ohio

L. DOONER, Oper.
*R. L. RHODES, Oper.

New Haven

C. A. BROWNELL, Plant
T. J. FAHEY, Plant
H. F. GARVEY, Oper.
S. F. KELLEY, Oper.
F. W. SMITH, Oper.

New Orleans

J. J. BURST, Oper.
H. GOMEZ, Oper.
M. G. GUGGENHEIM, Plant
H. H. JONES, JR., Oper.
J. MAQUAR, Plant
R. H. MARSHALL, Oper.
L. NEGUELOUA, Plant
G. ROUEN, Plant
R. ROUSSEL, Plant

New York

G. ANTONUCCI, Plant
E. BECK, Aud.
C. F. BILLHARDT, Coml.
M. J. BRAND, Aud.
G. BRECHT, Sup.
*H. BUZNITSKY, Oper.
C. CAPALDO, Oper.
*NEWCOMB CARLTON, Ex.
H. G. CAVANAGH, Exec.
*J. J. CLUNAN, Exec.
J. COSTELLO, Aud.
F. M. COWAN, Coml.
F. E. d'HUMY, Exec.
M. E. DEACON, Aud.
G. DEEG, Plant
L. G. DIAZ, Plant
W. C. DIEKROGER, Coml.
J. A. DIERKS, Exec.
C. DOOSE, Oper.
H. A. DUNN, Aud.
K. C. EDWARDS, Eng.
JOSEPH L. EGAN, Exec.
A. C. EGGERT, Plant
*H. R. EHRHART, Oper.
W. EMISON, Aud.
W. C. EVANS, Coml.
H. S. FINNEY, Plant
J. E. FISH, Plant
C. J. FLEMING, Exec.
W. FOERCH, Oper.
J. FORTMULLER, Plant
*E. Y. GALLAHER, Exec.
C. V. GARVEY, Aud.

E. F. GASTON, Exec.

C. GOULDING, Sup.
C. S. HAMMERGREN, Plant
J. HANNON, Exec.
*G. HILDEBRANT, Oper.
*R. M. HOPKINS, Exec.
*G. K. HUNTINGTON, Exec.
J. L. HUSMAN, Exec.
R. K. HYDE, Coml.
S. JASK, Eng.
*C. C. JOHNSON, Exec.
H. E. KENNEY, Plant
W. J. KLEINKNECHT, Ex.
J. F. KRIVAN, Sup.
E. LAHR, Sup.
M. LOEBER, Aud.
J. A. MACDONALD, Exec.
*C. M. MARRON, Exec.
W. P. MARSHALL, Exec.
A. J. McARDLE, Plant
*R. J. McDONALD, Plant
R. McGRATH, Plant
J. McNALLY, Oper.
F. A. MORLEY, Sup.
H. MUETTER, Oper.
F. MUNZER, Mfg.
*T. F. MURRAY, Plant
J. C. O'REILLY, Coml.
A. PADULA, Oper.
J. PUPKIN, Eng.
E. RABAN, Aud.
J. W. RAHDE, Exec.
J. H. RING, Plant
J. ROGERS, Plant
A. F. ROSS, Aud.
C. T. SCHALL, Plant
M. SCHULTZ, Plant
*C. R. SHAW, Eng.
V. SILVERII, Eng.
N. SLAVIN, Coml.
A. E. SMITH, Exec.
A. J. SMITH, Oper.
B. H. SOFGE, Exec.
B. V. SPIRO, Mfg.
*F. R. STARK, Exec.
E. STEARNS, Aud.
G. STEPPELLO, Plant
T. J. STEVENSON, Oper.
W. H. STEVENSON, Oper.
J. S. TOOLE, Exec.
L. TULLY, Oper.
M. M. TULLY, Plant
*C. S. VOORHEES, Exec.
*A. E. WALPER, Oper.
E. A. WARD, Exec.
W. P. WATERS, Exec.
H. A. WILEY, Plant
*J. C. WILLEVER, Exec.
A. F. WORDEN, Exec.
R. ZEPH, Sup.
P. W. ZIEHL, Aud.

Oakland

A. GOOCH, Oper.

Omaha

B. FULTON, Oper.
W. J. HUGHES, Oper.

Oshkosh

C. R. BENNIE, Oper.
E. KIMBLE, Oper.
R. MALKOWSKY, Oper.

Ottumwa

H. H. KAMERICK, Oper.

Paterson

P. E. BLAKE, Oper.

Philadelphia

W. J. BIBBY, Plant
*M. F. BOWLER, Coml.
L. DEVINE, Plant
F. M. DOORLEY, Plant
W. FARRELL, Plant
*L. P. HEATH, Plant
I. JACOBS, Oper.
M. A. LYONS, Oper.
C. A. SCHULZ, Oper.

Pittsburgh

L. KAHL, Oper.
J. P. STANG, Coml.

Portland, Me.

C. AMMANN, Oper.
J. J. CONLEY, Oper.
J. O. CURRAN, Oper.
G. MACDONOUGH, Oper.
M. J. NORTON, Oper.
J. J. TIERNEY, Oper.

Portland, Ore.

L. G. SAVIDGE, Oper.
W. E. SOUTHER, Plant
*S. C. STRAUS, Oper.

Quincy

C. F. THOMPSON, Oper.

Racine

R. M. EVANS, Oper.
E. GATTIE, Oper.

Reading

H. E. CLARK, Oper.
J. E. COBLE, Oper.

Rockford

*J. M. PRATT, Plant
E. F. WALSH, Oper.

Saginaw

J. O. ELLISON, Oper.
G. E. FISHER, Oper.
A. K. MILSTER, Oper.

San Antonio

C. A. HERBERT, Oper.

San Francisco

R. DYER, Plant
J. FORD, Plant
W. F. GOLEY, Plant
R. J. HABERMANN, Plant
B. B. JONES, Oper.
*H. O. KELLOGG, Plant
E. B. WHITE, Coml.

Scranton

I. N. TANG, Oper.

Sioux City

S. A. BIKAKIS, Oper.
V. F. GATES, Oper.
B. J. PERRY, Oper.
*F. C. SIDDALL, Oper.

Sioux Falls

J. J. BRITTNACHER, Oper.
B. OBERLANDER, Oper.
M. C. STOEVEKEN, Oper.

Spokane

R. C. BUCHANAN, Plant
*W. G. BUTTERFIELD, Op.
D. P. GANNON, Oper.
W. R. GREEN, Oper.

Springfield, Mass.

P. A. GOODYEAR, JR., Op.
F. J. O'HARA, Plant

Springfield, Ohio

*T. E. JONES, Oper.
M. A. KLINE, Oper.
D. MATHIAS, Oper.
R. SCOTT, Oper.

St. Joseph

T. BENDER, Plant
R. C. LAWSON, Oper.

St. Louis

E. BOWEN, Plant
E. A. BURGI, Plant
M. A. ELAM, Oper.
E. E. GENAIL, Plant
J. D. SMALL, Oper.
J. M. TIERNEY, Oper.
O. A. ULRICH, Plant
W. G. WALKER, Plant

St. Paul

H. ASTRUP, Oper.
*I. DE RUSHA, Plant
H. NELSON, Oper.
M. O'CONNELL, Oper.
*J. A. RONAN, Oper.

Superior

I. A. METZGER, Oper.

Syracuse

L. A. MAURER, Oper.
C. E. STYRING, Oper.
P. WEIN, Oper.

Tacoma

J. DERBYSHIRE, Oper.

Toledo

A. BARCHICK, Oper.
C. A. BAUMAN, Plant
E. LEBOWSKY, Oper.
F. MCCOLLEY, Plant
*G. V. PIKE, Oper.
W. P. STEVENS, Oper.

Topeka

D. D. DALY, Oper.
R. W. STEELEY, Oper.

Trenton

S. F. BLAISDELL, Plant
J. MAYERNICK, Oper.
E. MCGEEHAN, Oper.

Utica

A. LOUDIS, Oper.

Washington

J. E. BAILEY, Plant
C. R. BOWES, Oper.
F. A. CARROLL, Oper.
M. V. COZZENS, Oper.
J. J. DAVIS, Plant
E. PHELPS, Plant
T. P. RUSSELL, Oper.

Waterbury

D. F. O'CONNOR, Oper.

Wausau

*W. H. TAYLOR, Oper.

Wichita

H. J. DOYLE, Oper.
*D. HARRISON, Oper.
M. ROBERSON, Oper.
D. D. TAYLOR, Oper.

Worcester

T. E. CANANE, Oper.
*J. E. COAN, Oper.

Youngstown

J. J. GORSKI, Oper.
D. D. ROCHE, Oper.

Zanesville

J. H. KEHR, Oper.

* Retired on Pension.

