BOOK OF THE YEAR

Years ago Jacques Bergier co-authored The Morning of the lagicians, which I considered a bewildering but fascinating assortment of facts, theories, speculations, conjectures, and absurdities. Since reading his latest book, I'll delete the last word.

The first portion of Secret Armies traces the history of industrial spying, describes many lost discoveries, and is far more amusing than the average comedian. "The special service set up in Essen in 1920 was able to

keep the French from finding the giant cannon known as the Pariskanone which had bombarded the French capital in 1918: they turned it into a huge factory chimney." "There is a tale of an industrial-espionage agent who, in the heyday of American industrial expansion, went from floor to floor in the HO of a very important corporation, pushing a small wheeled teacart and informing each office: 'Check on secret documents. Please put them on the table.' Legend

has it he then rolled off with them and was never seen again! One private detective wrote: "The victims themselves make things easier for industrial spies by marking their letters PRIVATE and CONFIDENTIAL and drawing attention to them." The second portion remains fascinating but the mood changes - as it describes some proposed and actual weapons. "I am led to believe that work is being done on the crea-

tion of a field of force which could change all insulators into conductors, and vice versa. According to quantum theory, this is quite possible." One chapter describes secret manuals and magazines. If you enjoy reading Telco's confidential manuals, imagine what it would be like reading these! Polywater ('Polycrap", as

one sceptic called it) is also mentioned. Also an H-Bomb "lightning rod", which would be effective, unlike the fraudulent ripoff Safeguard (sic) AE: system. For camera fans, "the Soviet FD3 manufactured at Riga, which is the envy of the whole world. It looks like a fine chronometric wristwatch, is practically undetectible, and takes excellent pictures. With slight modification of setting, it can be used for microfilming documents. Until now, no other country has turned out anything like it." The search for invisibility is mentioned, of course. And

there's the intermediate explosive. "One such exists, which an be made by mixing a common commercial detergent with aluminum powder. Police everywhere are terrified of this falling into the hands of bombers, who might blow up not only their target, but the entire neighborhood around it. For specialists, we may say that this involves some fifty megajoules per kilogram of explosive, without need for outside oxygen. (for comparison, a kilogram of TNT provides 4.2 megajoules). And there's the antipetroleum microbe, and Catalyst C, which would dissolve all paper.

The last third of the book continues in this vein: Satellites which can detect a single individual on the ground, or a submerged submarine even when it's not moving. Californium 252, which has a critical mass of only a few grams so that an A-Bomb could be carried in and fired from a rifle. It concludes by describing 17 possible "local" wars: South Africa vs Black Africa, The Revolt Against Western Civilization, China Against India, X Against the United States. The Great Panic...

One is reminded of H. G. Wells' statement that "Human history becomes more and more a race between education and catastrophe." We apparently are in the home stretch. I think I'll go fishing. Or feed the squirrels. Or drop acid at the Brooklyn Botanical Garden.

INFORMATION WANTED

Shihh! Infrasonics and ultrasonics and microwaves, all of which are inaudible, can produce remarkable effects on people. A certain frequency around 7hertz will cause an involuntary relaxation of the anal sphincter muscles. Other frequencies will produce other remarkable effects - lethal if of sufficient intensity. Remember the Sonic Disrupters of Star Trek? We'd like more information about generators From 'The Big Brother Game: "a device which is about the size of a transistor radio and produces RF energy at a frequency of about 388mc. ... These devices are fairly simple to put together and the plans are commercially available... The French police are supposedly using a device which consists of a high frequency sound generator (about 25-35KHz) coupled to high efficiency tweeters and some concentrating baifles. The device vaguely resembles a hand held bull horn and is used for 'crewd control' ... "



NOV 1976

Dear Jim, Letters can be sent free by a method that has not yet appeared in TAP. It is ecological to recycle old envelopes, and if the envelopes are the type which businesses use (that have the metered postage on them and are never postmarked), then a stamp isn't even necessary! A large number of this type of envelope can be obtained by filling out Bingo (Readers' Service) Cards in many magazines. Professional journals give the best results.

> Kercheeeeeeeep, Edward Extract Westchester Phone Phreak Ass'n (WestPhreak)

NO. 40

Dear Jim:

Enclosed is the Free U Catalog (a 16 page tabloid) and a copy of our Alternative Technologies magazine. If you purchase a service contract through IBM for your Selectric, you may be able to talk the serviceman into giving you several extra elements. That is the way we picked up a variety of typing balls. Once an element has been used, it can no longer be sold by IBM. Hence, if a serviceman replaces someone's element, he has one to give away. The service contract is great, I had about \$300 worth of work done on my machine for \$45.

We are presently in the market for a composer - a machine that will give us justified copy. We have been told that the best choice is the Compugraphic Execuwriter for \$3500. That's a little steep considering the fact that we gross only \$7,000 a year. If anyone knows of a reasonable priced used one, please inform us.

We'd like info on a Diesel powered heat pump mentioned in Barry Commoner's The Poverty of Power. I'm not sure that it is even manufactured. We can provide some info on electric cars. We are working on a design that should double the performance of EV's such as the Elcar and Citicar. We also have a design for a CB accessory that will provide a clear channel. It is similar but better than the design that Lafayette Radio uses. The repeater club here in Indianopolis has bypassed Bell's mobile telephone monopoly and has their own set up. This is a considerable investment but it's a lot cheaper than renting equipment from Bell.

> Icarus Free c/o FLEX 526 E 52nd St. Indianapolis, IN 46205

ACHTUNG!

For information about TAP in special media (Braille or cassette) contact: Steve, Care of R. C., Box 1241, GPO NY 10001. Must spell out "Care of".

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UP YOURS!

Tom Edison

Some of you may have noticed the new title for this column, formerly known as "Odds & Ends". I was underwhelmed by the complete lack of reader response to my request for suggestions of a new title! Talk about apathetic, lazy bastards!!! The only response I received was from Sam, 1/2 of the notorious and infamous Litchfield Larcenists, who is now studying computers at a midwestern university. You really get to know who your friends are in a pinch. And speaking of TAP friends, let me welcome Stan W., the Polish Pride of Parlin, into our fold. Stan's interests are fast electronic circuits, fast cars, and

even faster women, not necessarily in that order! UP YOURS will act as a reader's forum and as such I welcome letters containing new & interesting ideas, improved electronic circuits, and solutions to various problems. Newspaper items of importance will be reprinted along with my acid (I hope!) commentary on what's really happening with all of the Big Brother Monopolies.

This month's Big Brother Report is on Pa Bell's record \$1 billion profit and the action taken the same day by N. J. Bell to help celebrate Pa's killing:

AT&T Profit A Record \$1B American Telephone & Tele

graph Co. reported yesterday that its profit in the three-month period ended Aug. 31 climbed 25% from the same span a year cartier to a record \$1.01 billion. Revenues of \$8.3 billion were up 13.7%.

Jersey Bell heard in rate hike request NEWARK (AP) - Oral arguments have concluded in a request by New Jersey Bell for a \$151 million rate take As part of the rate hike consideration. the PUC will decide whether to allow New Jersey Bell to charge for directory assistance calls, as the utility has re-

records from June 1 to Aug 31 while 10

looks for alternatives to the auctions. The

industries are pressing for an end to auc-

A spokesman for the financially troubl-

ed Postal Service said no figures are

available on the proceeds from postal

auctions since the service's billion dollar

bulk mast system was completed this

year. The mail agency says books and

records are its biggest problems in the

the mail "frequently are caused by poor

wrapping. He said postal rates for books

and records are very low and we have

found that book publishers and record

companies very otten won't invest in good

But industry representatives disputed

that "Our packaging is as good now as

if a ever been, if not better," said Albert.

Albert said the damage rate if un-

corrected may cause book publishers to

abandon the Postai Service for commer-

chairman of Prentice-Hall International

Association of American Publishers

wrepoing materials

The spokesman said the loose items in

How's that for sticking it to us without any Vaseline? Pa Bell ain't the only monopoly sticking it to us! It looks like the Postal Monopoly has found a new way to subsidize themselves using OUR undelivered mail:

U.S. to auction mail ripped open

WASHINGTON (AP) - If your collections of books and tion of Conway Twitty's greatest hits never arrived in the mail, chances are it's gone for a good purpose - helping the cash-starved Postal Service solve its debt. problems. The Postal Service is making profits from auctioning off books and records ripped them from their wrappers.

after its new mail sorting machines have Sookesmen for the book and record industries said Tuesday that their merchandise has received unprecedented damage in the mail since the Postal Service began using an automated system for sorting nackages and damaged It's simply separated

from its packaging - and its address by the machines, they said in these cases, postal regulations allow the intact. book or record to be auctioned off after a 60-day waiting period Congressional investigators have criticized some of the devices used to sort

and head of the postal committee of the packages as "nonsense machines" that cause needless damage "When the Postal Service can auction off books that become loose in the mail that gives it all economic reason not to locial purcei companies, despite the low cate the rightful owner. Leu Albert a mail rate for books. spokesman for the book publishing in-

dustry told a House Post Office subcom-The Postal Service has announced a

Vaseline tot, both legally and otherwise Suit attacks Their Mail

Of course, there are ways to put some sand in THEIR

mail monopoly WASHINGTON (AP) - A former postmaster general is leading a legal attack against the Postal Service that could cost the linancially asing mail agency millions of dollars per year J. Edward Day postmaster general in the earty 1960s and now a lawyer for an association of bulk mailers, filed the Inderai lawsuit challenging the con-Bilitutionality of the Postal Service's monopoly on third class, or advertising, smal. The monopoly was created by federal law.

"We want to have available to us the Externative of using private carriers," he had in an interview Thursday.

Two Ocean County men have been coarged with runmag down more than 350 curboids masalboxes in Lacey Township and adjacent Berkeley Town-Police said that the charges against Bruce Seits, 20, of South Toms River, and Russell Winn, about 20, of Forest River, have been referred to the regional postal impactor. The suspects were arrested Thursday after residents in the

Grounded

two communities filed complaints. Seits was arrested by a police officer on patrol and authorities said that Seits led them to Wing. My apologies for not having my columns ready for the Oct. issue of TAP. With the opening of school and the start of my classes in September, I just didn't have the time to write them up. Besides, Mr. Phelps had been bitching that he had

enough shit already typed to fill an issue. Even though it hurts my ego to admit it, the Oct issue was excellent in my opinion. I wonder if the Borden Company will appreciate the sharp increase in sales of Elmer's Glue-All that he helped to create? Jim has done for Elmer's what I'd like to think I've done for the manufacturers of 10 K ohm resistors, 1 MFD capacitors, and 56 volt Zener diodes! And speaking of 56 volt Zener diodes, I'll be damned if I could find one in Cin Sity the other day! I was both pleased and annoyed--pleased to realize that all of you home fone experimenters are playing around with some of the circuits I've shown yet annoyed that you'd be greedy enough to wipe out the supply at all the stores! Couldn't

you have left me one Zener?! A word of warning to all TAP military personnel screwing AUTOVON--Uncle Sam is apparently out to get you :

We'll catch you

Those who continue to use AUTOVON and other military telephone systems for personal calls can expect to be billed at the appropriate commercial rate, if caught, according to a USAFE spoksemen here. In fact, reports show that been collected by USAFE HQ.

more than \$4,600 has already here in a stepped-up effort to curtail such abuse. "The word is out," says May. Jim Perker, whose USAFE AUTOYON menagement team le charged with improving the Air Force portion of AUTO-VON in Europe. "We don't have to listen in on a conversation to suspect an individual of placing a personal cell. But if Capt. Jones calls Mrs. Jones in San Francisco, we

have a pretty good idea it's not

an illegal call has been identified, the rest is merely paperwork. The abuser is controlled by his commander and asked to reimburse the government. *Our batting average is excellent," says Parker. "To the

best of my knowledge, we have yet to loss a case." repently uncovered were made 10 local auto garages, civilian banking facilities and even to the Playboy Club in London. The lion's share, however, were to the U.S., according to a spokesmen. One individual al the air base here has paid \$549 for illegal calls, Another in the Wiesbaden area is the record holder thus far at \$862, Parker said. (Courteey Capt. Robert L. Tobias, Hq. ECA)

Let me end my column with a very enterprising news clip from the New York Daily News :

Xeroxing a Felony

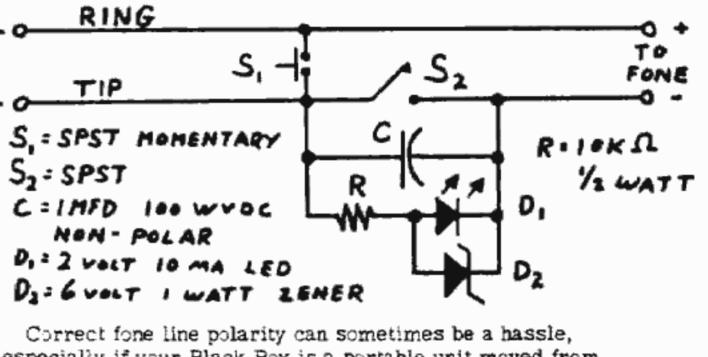
Build a better mouse trap and some rodent will find a way to apring it. That seems to be happening to Xerox Corp., which built a better copying marking - the 6500 color model, and now counterfesters are, according to reports, using the device to turn out bogus money orders, food slamps, stock certificates and sundry paper currencies. Following a West Coast report that some corporations have formed a task

force with government agencies to defuse the racket, Xerox issued a statement yesterday noting: "Xerox Corp. has been aware for a sing time of the concern of war our government agencies, banking and financial institutions and their industry organizations about the possibility of the Keroz 6500 color capier being used ; illegally reproduce copies of various negotiable socuments. "Many solutions are being in plemented ... Oriously, we cannot publicize the details of such preventive methods."

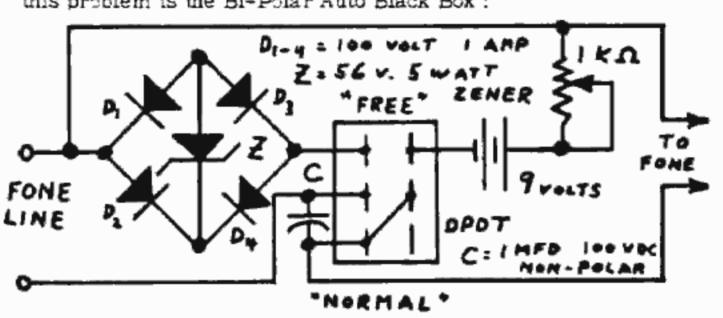
Xerox also said it feels it can't policy the use of its copiers by its ex-tiomers. "Look," said a spokesman. "If a Cherry is used in a bank robbery, 14 General Motors responsible for that !"

BLACK **BOX UPDATE!** by Tom Edison

Here are some new Black Box directes for your listening pleasure. The first is a Socop Lite that will work on Boxed cails. If you will recall, the original Snoop Lite (See issue #29. Oct 1975) is connected in series with one side of the fone line which means that the lite needs to have the full line current flowing through it to light up. When an extension fone or party line fone is picked up, the line voltage drops and the line current through the lite decreases causing the lite to go out out indicating that a "snoop" is listening in. When Boxing, the 10 K chm resistance reduces line current to such a low value that the lite cannot be lit. With this surcuit, a Light Emitting Diode or LED is used in place of the conventional snoop lite. The LED works on the low current level created by a Boxed call. The Zener diode across the LED is to protect the LED from the high 90-105 volt AC ringing current. Now, if some nosy bastard tries to listen to your Boxed calls, you'll know about it. And please remember that if someone does pick up on on your Boxed calls, the billing WILL start at the local CO! This circuit will NCT work with your own battery supplied Black Box because with your own battery to operate the fone carbon mouthpiece you draw NO line current from the local CC. You must also know your correct fone line Ring & Tip voltage polarity to operate the LED.



especially if your Black Box is a portable unit moved from room to room or house to house. An interesting solution to this problem is the Bi-Polar Auto Black Box :



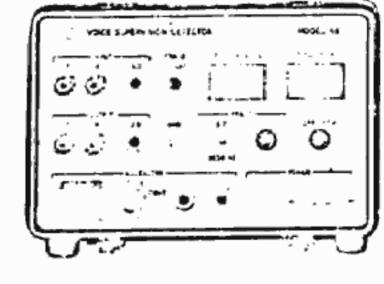
This is basically the same circuit as in issue #36 but in place of the rectifier diode there is a full wave bridge with the 56 volt Zener diode across the DC output. The Zener diode will momentarily "answer" your fone regardless of line Ring & Tip polarity. The full wave bridge will rectify the AC ringing voltage to a pulsating DC of the correct polarity to fire the Zener diode. With the switch in the normal position, the IMFD capacitor is shorted, the diode bridge is out of the circuit, and battery is being supplied by the local CQ. When your fone rings, flip the switch to the free position. This removes the short across the capacitor and puts it in series with the line, blocking any DC current from the CO but passing any audio signals. This also buts the diede bridge across the fone line which then momentarily conducts to fire the Zener diode and stop your fone from ringing. At the same time your own battery is connected to the mouthpiece direuit for operation. Cheap full wave bridge rectifiers are available from Radio Shack-Up. My Black Box Update wouldn't be complete without some info on the Black Box Detectors being built by Hekimian Labs:

VOICE SUPERVISION DETECTOR

MODEL 68

- DETECTS BLACK BOX OR 2600 HZ FRAUD
- TOTALIZES OCCURRENCES AND TOTAL TIME ■ TIMED AUDIO AND A.C. OUTLETS

MANUAL OR AUTO (OPTIONAL) FRAUD DEFEAT CONTROL



The Hekimian Model 68 Voice Supervision Detector is designed to detect and record occurrences of Black 85x and 2600 Hz fraud. It combines the latest integrated circuit technology with sophisticated detection techniques to insure reliable fraud detection. By totalizing both fraud occurrences and the total time of fraud duration it provings the user with extensive information on subscriber activity: Black Box or 2600 Hz fraud detection modes are selected by a front panel switch. In both modes, each fraud initiation is recorded on the OCCURRENCES totalizer. The total time, in minutes, of the call duration following the first fraud initiation is recorded on the TOTAL TIME totalizer. Accessory outputs providing switched ac, twitched dry contacts, and audio are activated by fraud occurrence and may be timed over three switch selected intervals or left on continuously until an on-hook or termination of the Black Box fraud occurs. Off-hook and fraud indicator fights are also provided. Black Box fraud is detected by sensing the presents of voice energy without a predetermined amount of subscriber loop current. A Black Box FRAUD DEFEAT swatch is used to manually provide off-hock supervision or, as an option, this may be performed automatically upon fraud detection to discourage this type of subscriber

of 2600 Hz. Protective circuitry guards against voice simu-When connected in series with a subscriber's loop. ted. The unit may also be bridged across the loop if only 2600 Hz detection is required. The unit is housed in a small rugged transit case and may

2600 Hy fraud is detected by recognizing the presence

be ordered with an optional security lock feature. **SPECIFICATIONS**

INPUT Series Connection 1.0 dB, typical Insertion loss Bridging Connection Greater than 100K Input impedance Ground Connection Not required

Occurrences Total Time ACCESSORY DUTPUTS Switched a.c.

TOTALIZERS

Dry Contacts Audio Timing POWER

continuous 105 to 125 VAC 50 60 mg 9 watts **DIMENSIONS**

WEIGHT å lbs.

6"H + 9" # + 75" D I WASH CONCERN

0 to 9999 occurrences

115 VAC at 100 watts

2.0 amplia c maximum

600 ohm balanced

1, 2, 3 minutes or

manual reset

0 to 9999 minutes

manual relet

TUNING YOUR ORGAN

Many people have at one time or another the need for accurate tones of a certain frequency for calibrating signal generators or an oscilloscope. We have in the past (Issues 7 and 12) shown that Touch-Tone phones and electronic organs have precise outputs and we have published the frequencies of the keys. Now, their is a simple, low cost frequency generator available. Altaj Electronics sells Kit 013 for \$15.75 (free postage), and it is advertised as a 1 MHz crystal-controlled oscillator with digitally divideddown outputs of 100 KHz, 10 KHz, 1 KHz, 100 Hz, 10 Hz. 1 Hz and .1 Hz. This is perfect for tuning the individual ranges of a signal generator, or making sure that your oscilloscope displays a square wave with 10 complete cycles occupying 10 divisions, when the time base is set at 1 milliseconds per division and feeding in a 1 KHz tone. Accuracy is .005% or better when adjusted with a frequency counter, which can be borrowed for the occasion.

These frequencies themselves are not especially useful, except that they are convenient for calibrating devices that will be used as frequency references. Send a check or money order to Altaj Electronics, P. C. Box 38544, Dallas, Texas 75238. Kit 014 is similar but uses TTL devices on the PC board instead of CMOS. Since CMOS uses much less power, we recommend it above TTL, so order KIT 013. The kit comes complete with all parts, PC board, but less power supply, which can be bought from them for \$6.50.

Due to the kit's low price, we do not recommend building it on your own and saving a few dollars. PC boards are to be preferred for IC projects because they solder quicker. and this means less heat to the chips. We suggest you buy the kit rather than attempt to etch your own board.

Dear TAP people.

Thank you for telling your readers about Dawn Enterprises products: life extension data, vitamins and food additives, Libertarian Connection (our publication, which also contains life extension data). Unfortunately, you seem to have implied that we have available electronic plans from Don Britton Enterprises. In fact, we have no electronic plans, catalogs, or products. The Libertarian Information Cooperative has no connection (no pun intended) with the LC and the LIC's statement that Dawn Enterprises would forward letters to them was made without asking our permission. In fact, we will not forward letters to LIC, or any other organization. We would greatly appreciate your informing your readers of these facts. Sincerely, Lisa Dawn

Box 90913 Worldway Postal Center Los Angeles, CA 90009

Sorry to have caused everyone inconvenience. JP.

2 FOR 1 The best part of working at TAP is opening and reading the mail. Answering letters is also fun. Laying out issues is at least creative. Filling orders is a drag, and mailing out each issue has become incredible drudgery. Since no one has come in to help out, we will begin sending out issues two at a time. This will reduce our labor and postage and envelope costs by half. True, it will mean you will have to wait an extra month or so for every other issue, but it's better than if we decided "Fuck it!" and quit entirely, isn't it? If we had enough people we could put out a 24 page issue each month, and it's all the fault of you NYC area readers that we don't.

Back Issues are 50¢ each, 40¢ each if you order 30 or Subscriptions - 10 issues - US bulk rate \$4.

US First Class in plain sealed envelope \$6. Canada & Mexico stapled \$6. Foreign \$7. IMPORTANT! Include mailing label or Xerox copy when writing to TAP about your subscription. Book - Monopoly \$1,20

Courses - 50¢ each A - Basic Electricity. B - A. C. C - Basic Phone Operation.D - Amplifiers. Send only check or money order (NO CASH) to TAP, 152 W 42 Street, Room 418, New York 10036 This is a mail drop only. OFFICE: 1201 Broadway, Room 608, New York 10001

HOURS: WEDNESDAY, 4 - 7 pm.

TAPT - shirts \$4. Specify size: Small, Med., Large, X-Large. See #35 for list of earlier feature articles

35 - Bulletproof vests, parking meter locks. 36 ~ Ultimate (hah!) Red Box, TEL update,

Discovering unlisted numbers. 37 - Report from NW Canada, CCIS report 38 - Jumping Water and Electric Meters and

alternatives, Black Box info. 39 - Fighting the Biggest Monopoly, Free Postage, Free Xerox.

CAPTAIN CRUNCH IS OUT! You can write him at Capt. Crunch Consultants, P. C. Box 3729, Stanford, CA, 94305 or leave a message

with his answering service (415) 965-1557. **COMING SOON!**

REPORT FROM MERRIE OLDE ENGLAND It's not so merry in a Socialist Police State where Big Brother controls the Telephone Company, the Post Office, the economy, and people's lives.

INTERVIEW WITH A GRAND GUY He doesn't have a colored box, but he does some weird things with a phone.

Jail phone calls curbed in N.Y.C. NEW YORK (UPI)-U.S. District Judge Marvin Frankel has ordered revisions at the federal detention facility in Manhattan to curb fraudulent long-distance telephone calls by inmates. The calls have cost an estimated \$100,000 mince August 1975. Frankel Friday ordered that the 23 pay telephones available at the Manhattan Correctional Center be converted to "restricted dialing," which will permit calls to the 212 area code only. In addition, Frankel said, the center will install 22 longdistance telephones to be routed through a switchboard that will allow collect calls or calls to be charged to the inmates' commissary accounts. Advance written authorization by the inmate will be required for each call he wishes

account, Frankel said.

The New York Telephone Company recently charged that its investigators had found that 24 per cent of the fraud in an area covering four million telephones had been traced to the 23 pay phones scattered throughout the 12-story jail. More than 100 prisoners were identified as having made a total of 200 fraudulent calls a day to places as far away as South America. The company threatened to remove the phones, but was blocked by a prisoner lawsuit charging the removal would violate their constitutional rights to communicate with relatives and lawyers.

The Record INFORMS

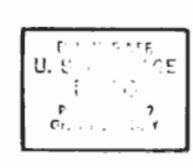
to charge to his commissary The Record is a FINK!

40

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