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SCIENCE NEWS LETTER



®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



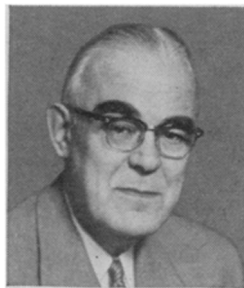
Busy Bee

See Page 138

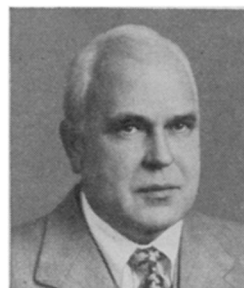
A SCIENCE SERVICE PUBLICATION



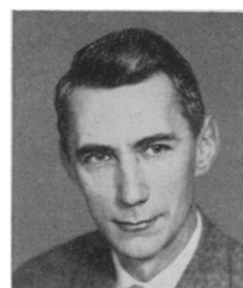
WARREN A. MARRISON. Tompion Gold Medal, Worshipful Company of Clockmakers of the City of London, for pioneer work on development of quartz crystal oscillators as precision standards of time.



AXEL G. JENSEN. David Sarnoff Gold Medal, Society of Motion Picture and Television Engineers, for Television Research; G. A. Hagemann Gold Medal for Industrial Research, Royal Technical College, Copenhagen.



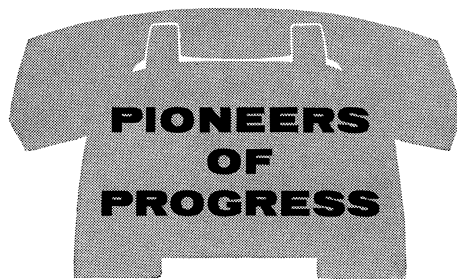
H. T. FRIIS. Medal of Honor, Institute of Radio Engineers, and Valdemar Poulsen Gold Medal, Danish Academy of Technical Sciences; important work in application of short and ultra-short radio waves.



CLAUDE E. SHANNON. Stuart Ballantine Medal, Franklin Institute of the State of Pennsylvania, for contributions to a comprehensive theory of communication.



W. G. PFANN. Mathewson Gold Medal, American Institute of Mining and Metallurgical Engineers, for discovery of and pioneering research in zone melting.



H. F. DODGE. Shewhart Medal, American Society for Quality Control, for original contributions to the art of statistical quality control.



R. KOMPFFNER. Duddell Medal, Physical Society of England, for his original work on the traveling wave tube.

These are some of our recent medal winners at Bell Laboratories. The awards they have won symbolize recognition for outstanding achievement in the many sciences that bear on telephony. Bell Labs is extremely proud of them—and of the thousands of scientists and engineers who work with them to keep the American telephone system the greatest in the world.



WALTER H. BRATTAIN. Co-winner with Dr. John Bardeen of John Scott Medals, City of Philadelphia, for invention of the transistor.

BELL TELEPHONE LABORATORIES



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New!

**BROADCAST BAND
ALL TRANSISTOR**

WRIST RADIO



LISTEN TO:

- Ball Games
- Election Notices
- Sport Programs
- Music
- Favorite Programs

USE ON:

- Vacations
- Traveling

IN:

- Home
- Office
- While Walking

**Keep in Touch
with Conelrad**

**Complete
With Battery
Ready to Use**

\$29.95

The Broadcast Band Wrist Radio was developed by a research organization having wide experience in the design and manufacture of electronic equipment for guided missile use. These techniques have been applied to the development of a miniature radio receiver. A special (patent pending) regenerative RF reflex circuit is incorporated in the wrist radio which allows for good selectivity and maximum sensitivity. In moderate signal strength areas, no antenna is required. The high sensitivity of the receiver permits its use with no external antenna at distances up to twenty-five miles for a broadcast station of average power, facilitating its use as a true wrist radio. Good reception is possible at greater distances by the use of a short length of wire from six inches to three feet depending on the distance from the broadcast station. Consistent reception has been obtained over thirty-five miles from the transmitter site.

The small size makes it the ideal radio. It can be worn on the wrist where it will fit comfortably under the sleeve of a jacket or worn in a shirt pocket.

The use of transistors makes it a rugged device not subjected to tube breakage. Special ruggedized high quality components are used throughout. Normally the transistor will not have to be replaced for the life of the instrument. Extreme economy of operation is obtained through the use of special circuitry requiring very low current, thus prolonging the life of the mercury cells. Battery life is approximately one hundred hours and battery cost of operation is less than two cents per hour.

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Please send me _____ Wrist Radios at
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FEATURES

- Two stage transformer coupled amplifier
- No whistle regenerative circuit
- Light weight—2.5 ounces total
- Battery life—100 hours
- Stainless steel expansion wrist band
- High quality hearing aid receiver
- Printed circuitry throughout
- Rugged plastic case
- No tube replacement or breakage
- Long life transistors
- Extreme economy of operation

SPECIFICATIONS

- Band coverage 550-1600 kc
- Sensitivity 200 microvolts to meter
- Output 2. - 2.5 milliwatts
- Current drain 4.5 milliamperes
- Battery voltage 6 volts
- Weight 2.5 ounces, including batteries
- Size 2¾" long x 1¾" wide x ¾" thick
- Color Black
- 1 RF Amplifier and detector transistor
- 2 Audio amplifier transistors
- 5 Mercury cells (General Dry Battery Type 625 or Eveready Type E625). Replacements available at your radio supply house or hearing aid dealer.