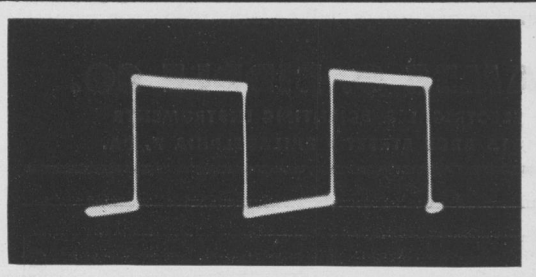
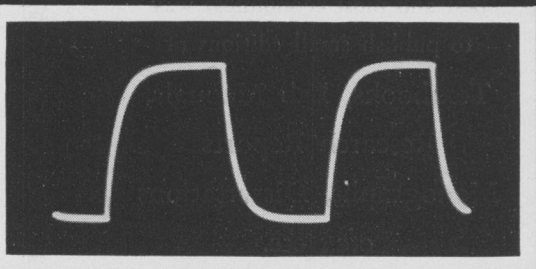


A perfect square wave, photographed by engineers of Allen B. DuMont Laboratories, Inc., at the output of a high-frequency amplifier. This is the result of repeated adjustment and readjustment of a compensated attenuator and peaking coils.

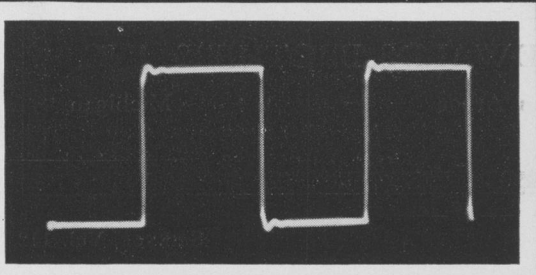
Improper adjustment results in poor low-frequency response. Note tilt in top and bottom flats. Percentage of tilt is a measure of low-frequency response and low-frequency phase shift.



Effect of "under peaking" of high-frequency compensating inductances. Note that rise time of square wave has been distorted so that the leading edge is rounded instead of sharp.



"Over peaking" with extremely fast rise. This produces "ringing" in the leading edge of the square wave.



## PHOTOGRAPHY helps adjust an amplifier

Far subtler differences than shown here can have large effects on performance.

How can you remember the all-important details of wave form? How can you show improvements achieved in the course of design changes and adjustments? How can you prove that a circuit long since gone from your bench behaved in a certain way?

With photography, of course. It's simple, it's indisputable, and it's permanent!

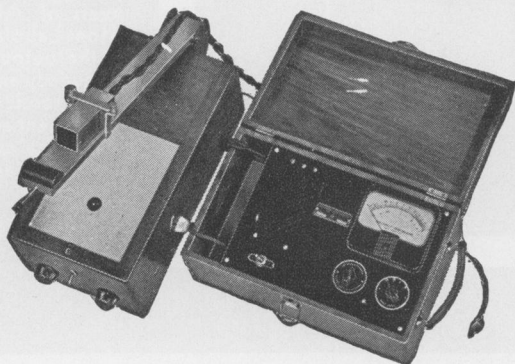
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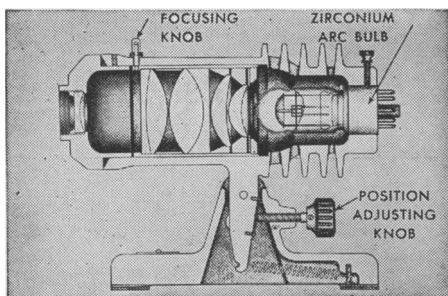
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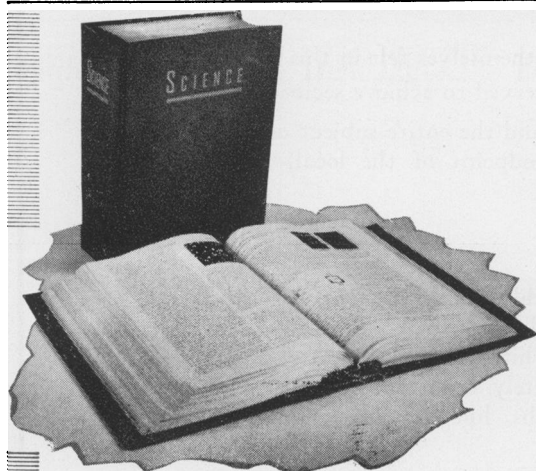
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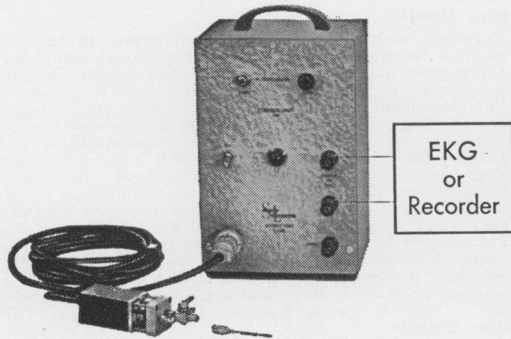
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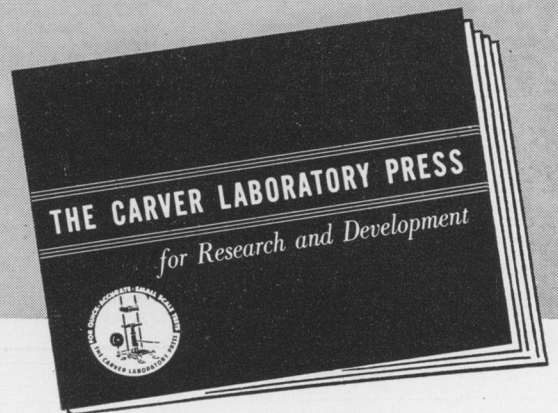
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7 times in 1 year	14.50 per inch
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REFERENCES: D. L. Morris, *Science* 107, 254 (1948).  
F. J. Viles, Jr., & L. Silverman, *Analytical Chemistry* 21, 950 Aug. (1949).

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**BIO LABORATORIES, INC.** 17 West 60th Street, New York 23, N. Y.



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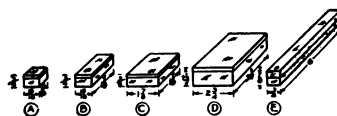
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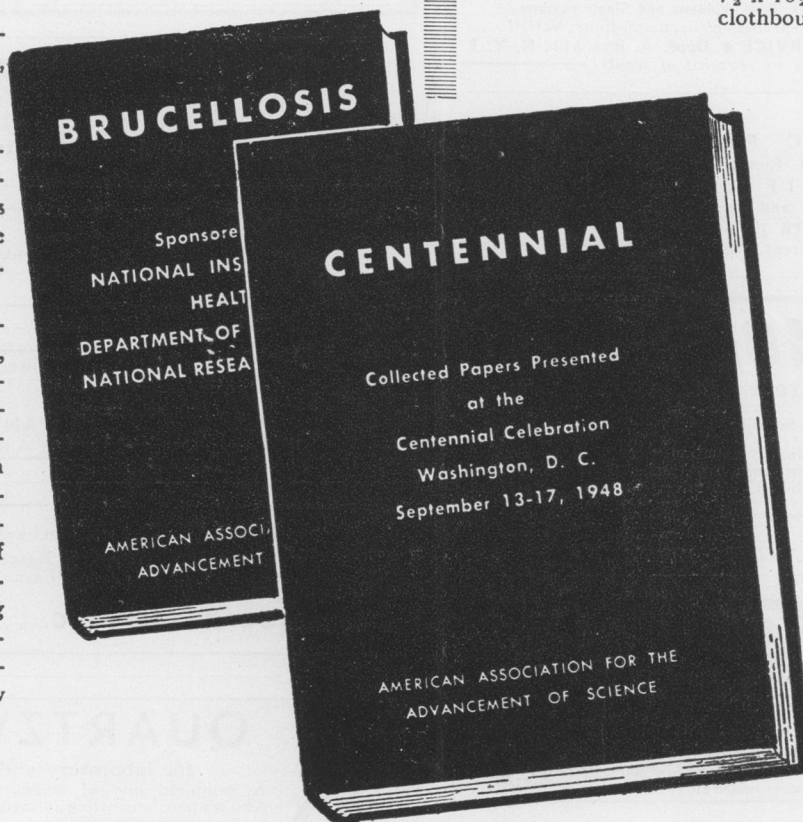
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phere  
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Name .....

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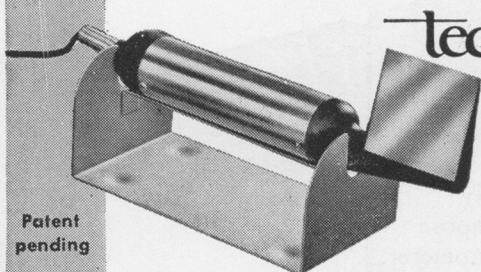
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# Technicon

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— they speed-up laboratory chores

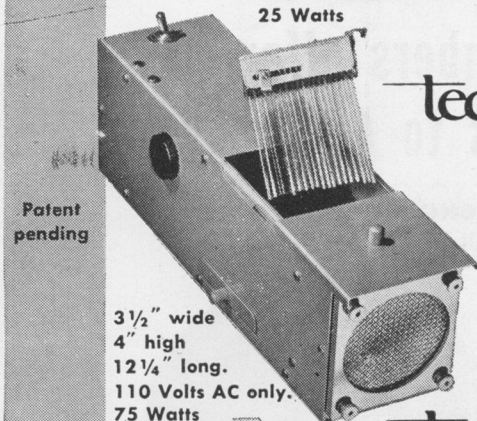


Patent pending

110 Volts AC - DC  
25 Watts

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makes work with paraffin-embedded tissues quick and easy. Great for cutting large blocks into small ones; for mounting blocks on a microtome object disc; for squaring up blocks; for separating ribbons in a water bath . . . Hollow stainless steel handle doesn't heat up; spring switch under thumb gives Finger-Tip Heat Control — easy to keep knife at the right temperature. When not in use lay knife in saddle rest — **Blade UP** keeps knife hot; **Blade DOWN** current is "off."

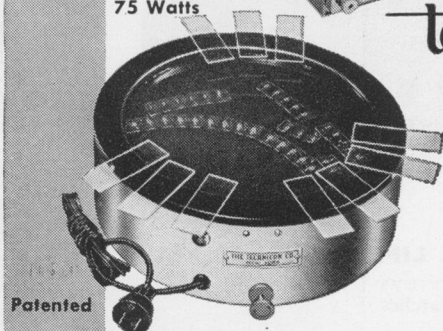


Patent pending

3 1/2" wide  
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12 1/4" long.  
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delivers slides ready for staining in 7 minutes! Just drop slides, in an Autotechnicon Slide Carrier, into the hatch, flip the switch and close the cover. A steady current of warm, filtered air blowing over the slides carries away all moisture, leaving them bone-dry and dust-free. The filter is replaceable. There's no distortion, either — the warm clean air is well below the melting point of paraffin.



Patented

Size: 10 3/4" Diam; 3 3/4" High  
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### Technicon *constant temperature* water bath

insures smooth, even spreading of your tissue ribbons. The water temperature is just right — never too hot or too cold, thermostatically held at any set temperature from 20° to 60°C. There's no melting paraffin to distort tissues — no folds or wrinkles, no bubbles due to frequent water change. Temperature stays constant, day-in, day-out. And it's easy to see your sections against the dull finished black interior of the bath.

# Technicon

## LAB-AID REQUISITES

#### THE TECHNICON COMPANY

215 East 149th Street, New York 51, N. Y.

Send me literature and prices on

- ☐ Technicon Paraffin Knife
- ☐ Technicon Microslide Dryer
- ☐ Technicon Constant Temperature Water Bath

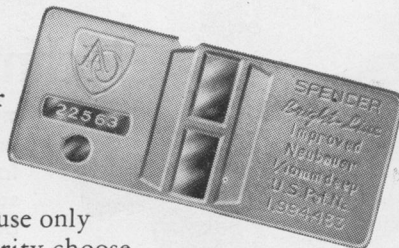
Name.....

Address.....

City, Zone, State.....

# *Only* an **ACCURATE** Blood Count is Worth Taking

To aid in correct diagnosis and proper treatment of patients, a blood count *must* be accurate. That is why most technicians follow accepted techniques with utmost care . . . why they use only the finest equipment . . . why the majority choose the famous Spencer "Bright-Line" Haemacytometer.



## *Only* **BRIGHT-LINE** Chambers offer these 6 Safeguards to Accuracy

### **GREATER CONTRAST BETWEEN CELLS AND BACKGROUND**

Cells appear dark, lines bright, background gray. Each cell is easily counted—even those which overlap lines.

### **MORE EVEN DISTRIBUTION OF CELLS**

Surface tension differences between metalized surface of chamber and glass surface of cover cause cells to distribute more evenly and chamber to fill more readily.

### **SIMULTANEOUS RESOLUTION OF BLOOD CELLS AND RULINGS**

It is not necessary to stop down the condenser of your microscope since blood cells and rulings can be clearly resolved at full diaphragm opening.

### **METALIZED BACKGROUND ELIMINATES GLARE**

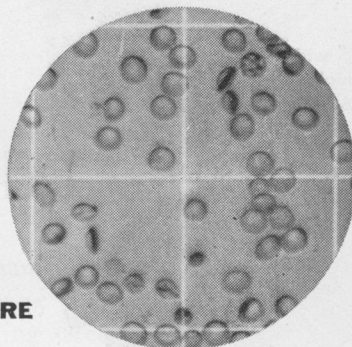
Absence of glare provides clearer vision and reduces eyestrain.

### **INDENTATION OF UNDERSIDE PROLONGS USEFUL LIFE**

Introduction of a slight concavity directly under rulings prevents scratches appearing on lower surface of chamber. Such scratches impair counting accuracy.

### **PRODUCTION TOLERANCES ARE HELD TO THOSE RECOMMENDED AND SET FORTH BY THE U. S. BUREAU OF STANDARDS**

*When you buy, specify "Bright-Line" and accept no substitutes. Immediate delivery from your supplier or write Dept. H2.*



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