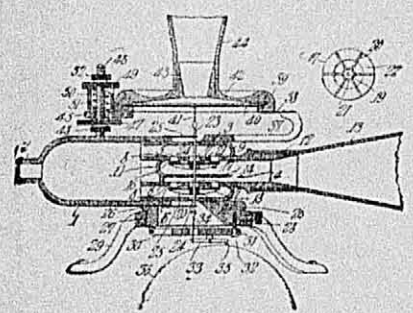


## Utah Inventor Perfects The Multiphone

An interesting and useful device for increasing the loudness of sound, invented by Nathaniel Baldwin, of Heber City, Utah, recently, has been protected by letters patent. Compressed air supplies the energy for producing the intensified sound. The instrument comprises a delicate valve which intercepts the flow of air from an air chamber into an amplifying horn, and means for operating the valve in accordance with sound wave vibrations. The result is that the compressed air issues from the horn in pulses corresponding to the original sound waves. There is thus produced a copy of the original sound, the intensity being determined by the pressure of the air, size of valve, etc.



In the figure, 1, represents a receiving chamber from which the air passes through the double valve into the horn 13. In the walls 8, which separate

the air chamber from the horn are formed central circular openings, 7, 7, surrounded by a number of concentric annular openings 5. The figure shows but one of these annular ports, but the best results are obtained by having a number of them, all concentric with the central opening and occupying but a small area. These ports are covered and nearly closed by valves 17. The smaller cut shows another view of one of the valves. These valves are fixed to a rod 23 and so arranged that their presence on one of them is balanced by the opposing pressure on the other. As the valve rod is carried by light springs 25, and moves without friction, the slightest impulses will operate the valves.

When the valve rod is connected to a diaphragm, as in the figure, and sound waves upon the diaphragm, the valves vibrate in accordance with the sound waves, and a much louder sound is given out from the horn. Used in this way, spoken words have been distinctly heard a mile away, but the range of the instrument is not limited to one mile, nor to five miles, as the sound from one valve may be used to operate the diaphragm of a second, larger valve, and the loudness again multiplied. Thus the device is useful in speaking, singing, or playing music at long range or to very large audiences, and by using a secondary valve, spoken words may be used for locomotive signals, fire alarms, etc.

Instead of a diaphragm, the valve rod may be connected to the stylus of a phonograph, as shown in the lower part of the figure. The valves then operate in accordance with the record and the instrument serves as a reproducing device. With this reproducing phonograph plays with surprising purity

of reproduction, and louder than a brass band. Of course the loudness can be reduced to the desired degree by placing a suitable shutter in the horn. The valve rod may be connected to the diaphragm or other armature of a telephone magnet, and the instrument becomes a receiver of high power. This is the most difficult application of the device, as the vibrations of the telephone receiver are very feeble, but the inventor has succeeded in making it audible at a distance of 600 feet.

Means are thus provided for a man to sit in his office or at his home and deliver a lecture or render a musical selection to an audience in a distant city.

### WON BY REFRAINING FROM BLOWING OWN HORN

Out in the middle west there is a huge manufacturing company, the largest in the world in that line. It is said, but it is a common saying, that it is to set aside a stated sum each year—sometimes an arbitrary amount—sometimes a percentage of profits for the last twelvemonth. This concern, however, recognizes that publicity money is to be spent to influence next year's business—not just year's. So the gross amount of next year's trade is estimated as closely as possible, and then a certain percentage of that constitutes the advertising appropriation. Before the depression of 1907-08 developed, says the Circle, this company's business had grown at such a rate that the annual percentage yielded more money than could be spent to advantage along the established lines to the house.

"Now, had we better reduce our percentage?" asked the directors. "Or shall we seek new channels for spending the surplus of the same percentage?" If so, what channels are best? They wanted information—honest advice. A dozen questions calculated to bring it out were drawn up and submitted to every advertising firm in the country.

Some did not give any opinion. Most of them replied, however, and usually at considerable length. Among the latter was just one. It is said, that gave full replies to the questions and said nothing about itself. Other advertising firms saw an opportunity to get profitable new business. They therefore gave full particulars about themselves, and in some cases sent salesmen to see the manufacturing concern's directors. A few were so intent on explaining who they were that they neglected the questions, and the end it was decided to spend the surplus, not reduce the percentage. The firm that said nothing about itself got the account.

### FOR SALE

Kitchen cabinet and range, almost new. Must be sold quick. Phone, Bell 1190-y, or call 60 So. 1st West.

### RUMMAGE SALE

By B'nai B'rith Auxiliary Society on Thursday, May 12, at 10 a. m. at Unity Hall (40 S. Second East.)

### LOGAN EXCURSION

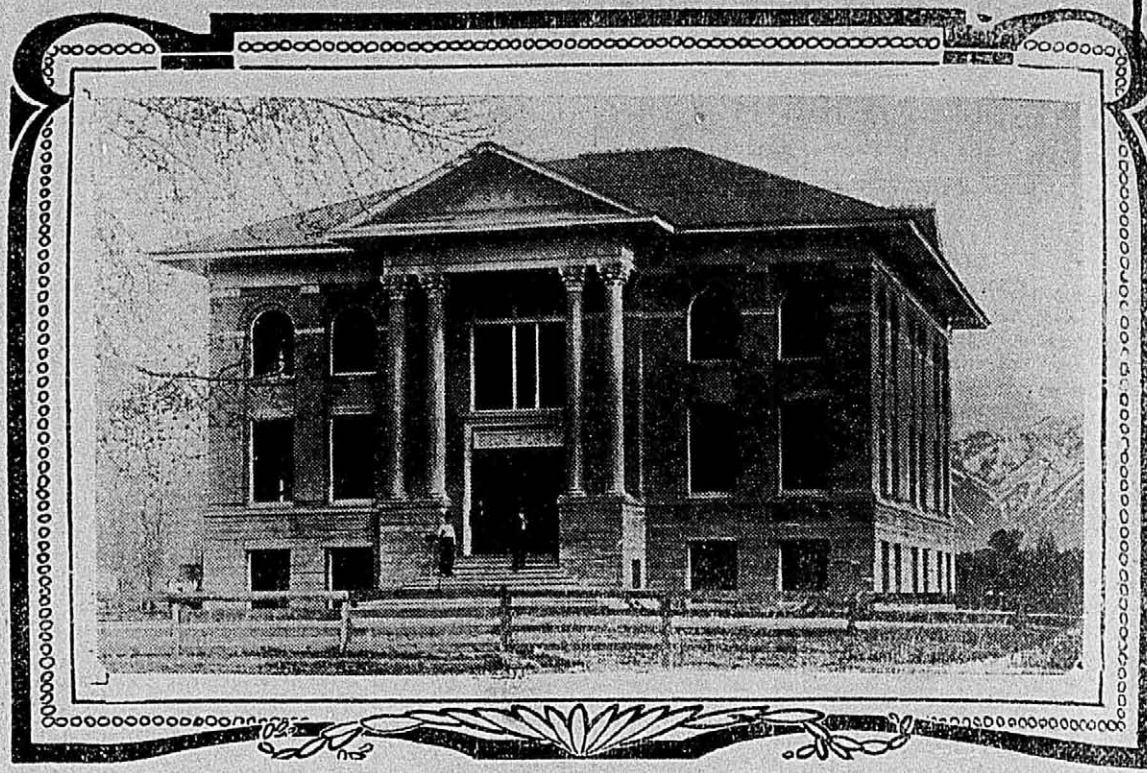
Saturday, May 15th, via Oregon Short Line for STATE TRACK MEET. Round trip \$2.50. Special train leaving Salt Lake at 8:20 a. m., will return, leaving Logan \$3.00 p. m.

Flower and Garden Seed, Bailey & Sons Co., 63 East 2nd St.

Go to the All Star Minstrel Show May 15th, Salt Lake Theater.

### SUMMER SCHOOL

The L. D. S. Business College conducts a ten weeks' summer school, commencing May 31, and continuing to Aug. 6. Special instruction in Civil Service, Bookkeeping, Shorthand, Typewriting, English, Penmanship, Commercial Arithmetic and kindred subjects. Terms, ten dollars. Send for catalogue.



SPRINGVILLE HIGH SCHOOL.

The accompanying cut shows a view of the Springville High school, which was recently completed at a cost of nearly \$23,000, without the cost of the ground or furniture. The building was to have been finished in January, but delays occurred through plans being changed and an early winter. The structure is modern in every particular, and one of which the citizens of Springville are proud. The opening of the building for school work on May 3, was celebrated by the ringing of the Washington school bell early in the morning and the parading of the street by the school band. The exercises at the building later in the morning were participated in by the school board and a number of citizens, as well as the students and teachers.

MONDAY	MONDAY	MONDAY	MONDAY	MONDAY	MONDAY	MONDAY
<b>50c Princess Costume Silks at 29c a yard</b> Beautiful, soft, draping, lustrous Princess Silks—perfectly washable—an entirely new weave, whose wear-resisting qualities are even greater than all silk fabrics—in all the new shapes of Mulberry, Peach, Lobster, tulle, Saphire, Khaki, Wisteria, Saddle Brown, tan, Lilac, gray, pink, light blue, apricot, Cardinal, canary, champagne, cream and white—Value 50c Monday—One dress to a customer ..... <b>29c</b>	<b>\$1.75 Linen Breakfast Cloths at 88c Each</b> 200 Silver Bleached Linen Table Cloths, 8-4 size, some hemmed, others with drawn work borders all around—pretty designs; value \$1.75, Monday, limit 2 to a customer at each ..... <b>88c</b>	<b>Great Silk Sacrifice</b> 75c Values for 48c 4,500 yards of plain Messaline and Taffeta Silks, 19 inches wide in all colors, including black, cream and white, regular value 75c, on sale Monday only at the sacrifice price, per yard ..... <b>48c</b>	<b>8½c Bleached Muslin at 4c a yard</b> 1,800 yards Bleached Muslins, the best 8½c Muslin in quality and finish; Monday, limit 15 yards to a customer at a yard ..... <b>4c</b>	<b>\$7.00 Dress Skirts \$4.45</b> The greatest array of fine Dress Skirts we have ever shown, gathered for special selling, worth \$7.00; Monday, as long as they last ..... <b>\$4.45</b>	<b>\$5.50 Silk and Net Waists \$3.35</b> Dozens of handsome Silk and Net Waists, Silk Waists in colors and black, all sizes; worth \$5.50; Monday only they'll go ..... <b>\$3.35</b>	<b>White Petticoats</b> Greatest \$2.00 value at \$1.10 120 Beautiful White Muslin Skirts with 20-inch deep ruffle, trimmed in 2 clusters of fine tucks and 12-inch deep embroidery, it's by all odds the greatest \$2.00 skirt value ever offered at our sale price ..... <b>\$1.10</b>

MONDAY	MONDAY
<b>10c Chambrays</b> In pink, light blue, tan, brown and gray—all fast colors—limit, 12 yards to a customer, at a yard ..... <b>6c</b>	<b>121-2c Silklines</b> One yard wide—hundreds of patterns in all color combinations—12 yards to a customer, at a yard ..... <b>63-4c</b>

## MONDAY SALES GREATEST EVER CROWDED INTO A BARGAIN PAGE

Determined to make Monday a Banner Day in DRY GOODS BUYING—If values will do it—If equal qualities at Lower Prices than others will do it, then your footsteps will be irresistibly drawn to this store, for the advertised items

### CHALLENGE COMPARISON

MONDAY
<b>30c White Embroidered Dress Swisses at 14c a yard</b> 500 Yards White Embroidered dotted Swisses very popular and always looked upon as one of the prettiest of all White Fabric for White Dresses and Waists—Value 30c Monday—12 yards to a Customer ..... <b>14c</b>

If You are a Good Judge of Silk and Dress Goods Bargains

WE WANT YOU TO COME AND SEE IF THESE ARE NOT BY FAR THE BEST SILK AND DRESS GOODS VALUES YOU HAVE SEEN IN YEARS.

**Fancy Silks**  
For Waists and Gowns.  
50 Pieces of new-Fancy Silks in Soft taffetas and beautiful Mirror finished Messalines, in self-colored shadow stripes and designs, also white hairline Stripes, Elegant Fabrics, suitable for Waists and Gowns, Worth \$1.00 on Sale Monday and ..... **69c**

**36 inch Fancy Pongee Silks**  
500 yards plain and white dotted pongee silk, 36 inch wide in all colors, navy, brown, green, Alice Garnet and black, regular \$1.00 on Sale Monday and ..... **79c**

**Wool Dress Goods**  
50 pieces of special values in wool Dress Goods for this week in Brilliantines, Novelty Checks, Novelty Stripes, plain and fancy weave Suitings, for this sale. Value up to 75c a yard ..... **38c**

**Wool Dress Goods**  
An exceptional offering of staple and Novelty weaves in this bargain event. Such as Fancy Shadow Stripes, Panama, plain Brunelles, taffetas and Panama; 38 to 45 inch wide—Regular \$1.00 and \$1.25 values. On Sale ..... **78c**

**Do You Need Shoes**

THEN READ THE ITEMS THAT FOLLOW, FOR THEY ILLUSTRATE THE LOW PRICE TREND HERE—THE VALUES ARE UNAPPROACHABLE.

Misses Black Kid School Shoes with patent tip, sizes 11 to 12, to 2 at per pair ..... **\$1.35**

Children's Black and Tan Oxfords, sizes 8½ to 11, value \$1.50 at per pair ..... **\$1.15**

Ladies' Kid Oxfords in black kid with tops, on sale at the pair ..... **\$1.70**

Ladies' Black Kid or Patent Oxfords, with plain toes and ribbon tips, value \$2.00 goes per pair ..... **\$2.45**

Children's Shoes or Oxfords with patent tip and heavy soles, sizes 5 to 8, go while they last at a pair ..... **98c**

## ESTABLISHED 1864

# Auerbach & Bro.

### ONE PRICE TO ALL NEVER UNDERSOLD

Better Share in These  
**Suit, Dress and Waist Bargains**

NEWS OF SUCH TIMELY IMPORTANCE IS BOUND TO CREATE A STIR. RIGHT IN STYLE AND MATERIALS AND THE PRICES ARE BELOW THE COST OF PRODUCTION. IF YOU KNOW THEM AS WE KNOW THEM YOU'D BE HERE BRIGHT AND EARLY.

**\$25.00 and \$27.50 Tailored Suits, \$15.95**  
Women's Tailored Suits, of fancy worsted, plain serge and fancy materials, some suit-away, suits, semi-fitted and lined with satin, regular good skirts. Ours \$15.95 own price for these Suits were \$25 and \$27.50. Next week they go at ..... **\$15.95**

**\$15.00 Wash Suits, \$10.95**  
Smart, stylish wash suits, of rep. cloth in white, blue and tan, coats 38 inches long, semi-fitted hipless effect. Skirts gored and gracefully hung. Worth fully \$10.95 ..... **\$10.95**

**\$20.00 Silk Dresses \$11.75**  
Handsome silk dresses, designed with yoke of beautiful net, high waist line finished at back with cash, front finished with single row of buttons, tucked sleeves, comes in garnet, navy, green and brown, with dots. Worth fully \$20.00. Next week choose at ..... **\$11.75**

**\$8.75 Silk and Net Waists, \$5.95**  
Dainty net and messaline waists, net waists are of excellent quality fish net over heavy silk. Messaline have tucked fronts and sleeves, in all colors. Worth fully \$8.75, choose next week at ..... **\$5.95**

**Most Graduates Buy White Goods Here Do You Know Why?**

BECAUSE WE HAVE THE LARGEST AND MOST VARIED STOCK IN SALT LAKE TO CHOOSE FROM—BECAUSE PRICES ARE LOWEST.

30c WHITE PERMANENT LAWN, For Next Week, per yard ..... **19c**

40c WHITE FRENCH LAWN—For Graduation Dresses—40 inches wide, special for next week, per yard ..... **24c**

THE NEW BORDERED WHITE DIMITIES—Value 50c Next week, per yard ..... **29c**

50c WHITE FRENCH LAWN—For Graduation Dresses—50 inches wide—next week per yard ..... **57c**

WHITE SYLVIA LAWN—50 inches wide—For Graduation Dresses—Value \$1.00. Next week, per yard ..... **66c**

Listen to This  
**Clothing TALK**

AND YOU'LL QUICKLY SEE THE ECONOMY IMPORTANCE OF BUYING BOYS' CLOTHING HERE NEXT WEEK.

Illustrations Follow:

OUR \$3.00 SUITS ARE RE-OWNED for their general excellence. Next week all \$3.00 values will be sold for the ..... **\$1.95**

OUR \$5.00 SUITS ARE THE BEST, no doubt, that \$5.00 can buy in the west, our variety of patterns is so extensive and qualities so convincing that selections are easy. Take a \$5.00 suit ..... **\$3.65**

OUR \$7.00 SUITS FOR STYLE AND QUALITY ARE UNPARALLELED, seeing them will at once convince you. You can buy \$7.00 suits here next week ..... **\$4.95**

OUR \$9.00 SUITS, the VERY CHOICEST in Pattern and Style, made in the very best of fashion from the most superior of wool fabrics; offered at a deep price reduction, \$10.00 values, next week at only ..... **\$6.95**

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MONDAY	MONDAY
<b>Ladies' GLOVES</b> Best 35c grade at 25c 2 clasp Lisle thread Gloves, in black, white and all colors, sizes 6 to 8½, the best 35c value on sale Monday at a pair ..... <b>25c</b>	<b>Ruching</b> 25c per box of 6 lengths, White Ruching, all different styles, worth 50c, Monday sale price ..... <b>25c</b>

MONDAY
<b>Pure Linen HANDKERCHIEFS</b> 25c Grade at 10c Ladies all pure Linen Unlaundered Handkerchiefs with hand embroidered initial and small floral designs in corner, plain or crossbar, regular 25c grade, on sale Monday only at ..... <b>10c</b>

MONDAY	MONDAY
<b>CORSET COVERS</b> 35c grade at 19c Made of fine cambray, trimmed in Torchon Lace, edging and insertion, all sizes, 35c grade, on sale Monday, at ..... <b>19c</b>	<b>Children's HOSE</b> Best 35c grade at 19c Children's fine Silkette Hose, in black, tan or white, all sizes, extra fine 35c grade, Monday sale price, a pair ..... <b>19c</b>

MONDAY
<b>White Petticoats</b> \$2.25 Grade at \$1.25 Ladies' white Skirt of best Muslin with 18-inch deep ruffle trimmed in clusters of tucks and two rows Paris Point Lace Insertion and Edging, a beauty, on sale Monday ..... <b>\$1.25</b>

MONDAY	MONDAY
<b>LADIES' GOWNS</b> Best 75c grade at 49c High or low neck Gowns of extra good Muslin neatly trimmed in lace or embroidery, all sizes, best 75c Grades Monday at ..... <b>49c</b>	<b>CORSET COVERS</b> Best 50c grade at 29c Made of fine long cloth, trimmed in Torchon Lace, Point Lace Insertion and edging, best 50c grade, Monday sale price ..... <b>29c</b>

MONDAY	MONDAY	MONDAY	MONDAY	MONDAY	MONDAY	MONDAY
<b>\$1.75 Bleached Table Linen at \$1.18 a yard.</b> 10 pieces 72 inches wide Full Bleached Satin finished Table Linen "Reeds" Banner Damasks in single and double borders—striped, dotted, pansy, fleur de Lis, poppy, bow knot, Lily of the Valley and American Beauty Rose designs—Value \$1.75, Monday at ..... <b>\$1.18</b>	<b>50c BOYS' SHIRTS</b> With or without collar attached. ..... <b>29c</b> <b>35c BOYS' UNDERWEAR</b> Ribbed and French Balbriggan Shirts and Drawers, special, per garment ..... <b>23c</b>	<b>Shoes</b> Little girls' black Calf School SHOES with extension soles, sizes 5 to 12½, go at ..... <b>98c</b> per pair ..... <b>\$1.15</b>	<b>25c Towels at 14c Each</b> 300 Towels, hemmed Linen Huck Towels, size 19x33; hemmed Turkish Bath Towels, size 25x47; Knotted Fringed Damask Towels, size 19x42—Monday, limit 6 to a customer at, each ..... <b>14c</b>	<b>Infant's Toilet Sets</b> 75c Value at 49c Celluloid Set containing Comb, brush and rattle, each set put up in box come in pink, blue or white, Monday at ..... <b>49c</b>	<b>25c Washable 4 in Hand Ties</b> Plain and figured white, also colors. Special, 3 for 50c or ..... <b>17c</b> <b>75c Silk 4 in Hand Ties</b> French scarf and reversible styles. Special, 3 for \$1.00 or ..... <b>35c</b>	<b>Combination Garments</b> \$1.00 Grade at 63c Ladies Corset Cover and Drawers or Corset Cover and skirt combination. Garments, made of fine long cloth, trimmed in Val Lace and embroidery. Insertion, all sizes, best \$1.00 Grade on sale Monday ..... <b>63c</b>