

EXPLAINED TO
JAMES HENRY.

His Grandfather Tries to Tell
a Little of What Marconi
Has Done.

James Henry is a boy who wants to know about things. Now, James Henry has a grandfather who is one of those men who always want to tell people things. So James Henry and his grandfather get on very well together, because James Henry wants to know about things and he is kind enough to his grandfather to let him tell him about them.

For instance, James Henry gave his grandfather a beautiful chance the other day. He owned right up to him that he didn't see how Mr. Marconi could telegraph without wires, especially across the Atlantic ocean. "Do you know just how they telegraph with wires?" his grandfather asked.

"No," said James Henry, "not quite, but I've always known, they could do that."

"Yes, you've known that a good while, haven't you?" said his grandfather. "Well, the most of us are so used to seeing machines do things that we don't bother about just how they do them; we know that they do them, and that is enough for us. Now, do you know what ether is?"

"That stuff that puts you to sleep," said James Henry.

"I don't mean that kind. The kind I mean is quite different, and I don't think that anybody understands it very well. It is a substance which is everywhere; it is in the air and above the air, and it reaches to the sun and to the stars, and it is all through all other things, in the earth and the water and all solid bodies. When we move about and when the earth and the planets move they pass through it, as if it were a kind of jelly. No, of course, we don't understand it, but it is the only way that men of science can account for a good many things."

"Well, Mr. Marconi has made a machine—I can't tell you all about it, and it isn't necessary—but the prettiest part of it is where he makes great electric sparks leap across from one brass knob to another, with quite a display of fireworks. He can make the sparks jump or stop jumping by pressing a key or letting it go. And when the sparks come they set something to vibrating, probably this same ether."

"So the ether vibrates or pulsates, or waves—whatever you want to call it—and the waves of the ether spread out in all directions from Mr. Marconi's machine, just as the waves spread out in all directions on a pond when you throw a stone into it."

"But they don't spread in all directions on the pond," said James Henry, "they only spread sideways, not up and down."

"James Henry," said his grandfather, "how do you know they don't spread down through the water from where the stone strikes it, and up from where it touches the bottom? Well, then, these waves from Mr. Marconi's machine spread out, not in a circle, but in the form of a ball. The first wave widens and widens in all directions, and while it is doing it another starts in the same way, and so they all go out and out, and after another. There are a good many of them, too—perhaps 100 millions a minute, more or less. Now, remember, whenever Mr. Marconi presses his key, off go these waves, and whenever he lets go the key they stop. Well, then, all that is needed, is some machine which can feel these vibrations a long way off, when they come, and make a record of them, and then Mr. Marconi can tick off any message he likes, just as he would on an ordinary telegraph machine."

"Now, attached to the machine which makes the sparks there is a wire, which is hung at all sorts of angles, so that it can get it. I don't think that anybody knows, even Mr. Marconi himself, just how much his wire is good for, or just what it is good for, but it does seem somehow to help those waves to get off, and to help them to go further when they are off. Then, somewhere away off, there is another wire hung up, and that manages to catch the waves, and an instrument attached to it says, 'tick, tick, tick,' and tells what Mr. Marconi has to say."

"Mr. Marconi thought for a while that the higher he could hang his wire the further he could send his waves, but he about gave that up the other day, when he sent them right across the Atlantic. He used to think, too, that the waves went through the air, but he doubted that when he found that a few houses or even a hill in the way did not seem to trouble his waves at all. He says, 'perhaps they go through the earth instead of the air. And, then, when they sent the waves from Cornwall, in England, to Newfoundland, and Mr. Marconi caught them on his kite string, the earth carried so much that there was a piece of it more than a hundred miles thick between the two places. So as long as we don't know just what the waves do go through, we say that they go through the ether.'"

"You don't seem to know much about it, anyway, do you?" said James Henry.

"There is certainly a good deal of guess work about it," his grandfather answered, "but I think that the men who have done all the work are a good deal puzzled about a good many things. But they have found that they can do a great deal, and I am sure that they will soon do a great deal more."—Kansas City Star.

A Fireman's Close Call.
"I stuck to my engine, although every joint ached and every nerve was racked with pain," writes C. W. Bellamy, a locomotive fireman of Burlington, Iowa. "I was weak and pale, without any appetite and all run down. As I was about to give up, I got a bottle of Electric Bitters and, after taking it, I felt as well as I ever did in my life. Weak, sickly, run down people always gain new life, strength and vigor from their use. Try them. Satisfaction guaranteed by Z. C. M. I. Drug Dept. Price 50c."

MORE ACCOMMODATIONS.
"The World's Fair Line," that is, The Missouri Pacific Railway, in connection with the Denver & Rio Grande, Rio Grande Western and Southern Pacific railways, has put on a weekly Tourist Car line between St. Louis and San Francisco. First car leaves St. Louis Tuesday, December 24th, arriving at Salt Lake Thursday a. m., December 26th.
The first car eastbound leaves San Francisco Monday a. m., December 30th, Salt Lake Wednesday p. m., arriving at St. Louis at 7:10 a. m. Friday, January 3rd.
These cars are first class tourist cars. Both first and second class tickets will be honored in these cars. Berth rate to Kansas City \$3.00, St. Louis \$4.00. Quick time.
Dining car service will be inaugurated early in New Year.
Only one change between Salt Lake City and principal points east.
Ticket office No. 103 Dooley Block.

OUR FIRST GRAND MUSLIN UNDERWEAR SALE!

IN OUR NEW STORE.

A N IMMENSE Shipment of Beautiful 1902 Lingerie. The Garments are all Brand New. The Modeling and Finishing of our garments attain the Height of Art and Skill. Never before have we been able to prepare such superb values as we have prepared for this week's selling. At no time in the season will our selection of Dainty White Garments be equally large, and its in the Greatly Reduced Prices that you will see the extraordinary advantage of purchasing here and now. We propose to make this, our First Sale of Undermuslins in New Store, intensely interesting.

IT'S A SALE THAT ALL SHOULD ATTEND.

Early planning and buying of the BEST, NEWEST GOODS have resulted in very extraordinary things. The prettiest laces, the finest embroideries, the most unquestionable materials and workmanship, conscientious sewing, careful finishing, generous sizes are all allied to real economy.

...The Paris Millinery Co...

CHEMISES!

- 25c for GOOD QUALITY MUSLIN CHEMISES.
- 37c Good quality muslin Chemises, torchon lace edging on sleeves and neck.
- 59c SKIRT CHEMISES, lace and ribbon trimmed neck and sleeves flounce finished with lace or embroidery ruffle.
- 78c SKIRT CHEMISES, neatly trimmed in torchon lace, lace finished ruffle around neck and sleeves, flounce trimmed with cluster of tucks or embroidery.
- 89c SKIRT CHEMISES of fine cambric or nainsook, trimmed in embroidery, insertion, ribbon or with lace insertion and lace ruffle.
- \$1.19 SKIRT CHEMISES of extra fine quality hand-somely trimmed with embroidery insertion and ribbons, or lace and lace insertion and ribbons.

\$1.23 SKIRT CHEMISE made of fine cambric and lawn, beautifully trimmed in lace and lace insertion, embroidery and embroidery insertion and ribbons.

\$1.48 SKIRT CHEMISES, made of fine nainsook, torchon lace, trimmed around neck, sleeves and bottom or embroidery insertion, clusters of tucks and hemstitched. Very handsome assortment.

\$1.73 SKIRT CHEMISES, made of very fine cambric, embroidery insertion, lace and ribbon trimmed, ribbon run insertion around waist, (empire style, or corset cover and skirt combined). Lace or embroidery.

\$2.19 Nainsook or Cambric skirt chemises trimmed with lace, embroidery insertion, and ribbon, empire style, lace ruffle. Valenciennes lace or Point de Paris trimmed, neck and sleeves, flounce, trimmed with lace insertion. Lace ruffle on bottom.



NIGHTGOWNS.

- 37c Muslin Nightgown, tucked ruffled neck and sleeves, V shaped or high neck.
- 49c Muslin Nightgown, tucked and embroidery insertion trimmed.
- 62c Empire style gown, made up with lace or embroidery insertion and ribbon.
- 78c Good quality Muslin Gown, seven styles to select from, handsomely trimmed with lace, embroidery insertion and ribbon.
- 93c Cambric or Nainsook Gown, trimmed in Valenciennes lace, Torchon laces, embroidery insertion, tucks and ribbons.
- \$1.12 Eight styles of Muslin and Nainsook Gowns, beautifully made up with embroidery, Torchon laces, fine tucking and ribbons.
- \$1.33 Fine Muslin and Cambric Gowns, elaborately trimmed in Valenciennes lace, extra fine tucking and ribbons.
- \$1.69 Extra fine quality Nainsook or Cambric or Muslin, artistically made up, trimmed with embroidery, lace, tucking and hemstitching.
- \$2.18 Best quality Nainsook or Muslin Gown, elaborately trimmed, with Torchon laces, fine embroidery and hemstitching.
- \$2.63 Very fine quality Cambric or Muslin Gown, elaborately trimmed, with fine embroidery insertion.
- \$3.23 Very elegant quality Cambric or Nainsook Gown, most elaborately trimmed, with Point de Paris lace and ribbon, or very fine embroidery and ribbon.

SKIRTS! SKIRTS!

- 37c Muslin Skirts, four rows of tucking finish, with ruffle.
- 53c Good Muslin Skirts, hemstitched, tucks on deep flounce.
- 59c Good quality Muslin Skirts, deep flounce, lace edging, also three rows of tucking and embroidered flounce.
- 87c Fine quality Muslin Skirt, deep flounce, lace insertion, lace on bottom, deep flounce embroidered or hemstitched.
- \$1.19 Cambric or Muslin Skirt, with deep flounce, three rows of lace insertion and lace on bottom five rows of tucking, lace insertion and lace ruffle, hemstitched tucks and embroidery ruffle.
- \$1.38 Cambric Skirt, very deep flounce, four rows of Point de Paris insertion, also very deep flounce, with 8-inch embroidery ruffle.
- \$2.53 Cambric Skirt, deep flounce, trimmed with deep embroidery ruffle, four rows of fine tucking.
- \$2.99 Very fine Cambric Skirt, elaborately trimmed, with two rows of wide lace insertion, three clusters of five rows fine tucks and lace ruffle, etc.
- \$1.79 Fine Cambric Skirt, deep flounce, three rows of lace insertion, lace ruffle and tucks, also another style, five rows of lace insertion and ruffle, deep flounce, tucked and embroidery ruffle.
- \$2.17 Cambric or Lawn Skirt, deep flounce, with five rows of lace insertion and ruffle or two rows of lace insertion, tuck and lace ruffle, or with lace, six rows of fine tucking.
- \$2.33 Cambric Skirts, hand-somely trimmed, with embroidery insertion and tucking, or with lace insertion and clusters of tucks.

MISSES SKIRTS.

- 27c Good quality muslin skirts, ruffled flounce.
- 33c Muslin skirts, hemstitched or lace edged flounce.
- 42c Muslin skirts, deep flounce, with embroidered ruffle.
- 57c MUSLIN SKIRTS, deep flounce, with wide lace, headed with tucks.

CORSET COVERS.

- 9c for Plain Muslin Corset Covers.
- 13c for good quality muslin Corset Covers.
- 23c for Muslin Corset Covers, lace trimmed, hemstitched ruffle, square or V-shaped neck.
- 29c Good quality muslin Corset Cover, embroidery or lace insertion trimmed fronts.
- 39c Lace insertion trimmed front, made of fine quality muslin.
- 53c Cambric Corset Cover, whole front trimmed with lace insertion or tucks, or embroidery insertion.
- 78c Fine Cambric or Lawn Corset Cover, very pretty styles, fronts trimmed with Bias lace insertion.

DRAWERS.

- 19c Muslin Drawers, with deep hemstitched ruffle.
- 29c Muslin Drawers, deep ruffle, finished with Torchon lace.
- 39c Muslin Drawers, trimmed with Torchon lace, insertion and deep lace edging or deep embroidery ruffle.
- 57c Muslin or Cambric Drawers, with deep embroidery ruffle, headed with cluster of tucks or two rows of embroidery insertion above deep hem—deep ruffle trimmed with two rows of lace insertion and lace ruffle, headed with clusters of five rows of tucks, etc.
- 79c Cambric Drawers, with deep embroidery ruffle, headed with two rows of hemstitching and one row of lace insertion or of Nainsook, ruffle, headed with lace insertion between two clusters of four rows of tucks.
- 98c Cambric, Nainsook or Muslin Drawers, trimmed with lace insertion, deep lace ruffle, headed with tucks, embroidery ruffle, headed with tucks or two rows of lace insertion between three rows of hemstitching and lace edging.
- \$1.13 Fine Cambric Drawers, trimmed with four rows of tucks above hemstitched ruffle or embroidery ruffle, headed with wide embroidery insertion.
- \$1.27 Fine Nainsook Drawers, trimmed with two rows of lace insertion, lace ruffle, fine tucks or embroidery insertion and tucks.

Mail Orders Promptly Filled.

Our Entire Stock of Infants' Wear Included in This Sale at Great Reductions.

- 44c INFANTS' LONG SLIPS, LACE TRIMMED, value 55c.
- 98c INFANTS' Long Dress, made of fine Cambric, tucked yoke, embroidery trimmed top and bottom. Value \$1.35.
- \$1.19 INFANTS' LONG DRESS of fine India Linen, trimmed with tucks, insertion and embroidery; value \$1.75.
- \$1.66 INFANTS' LONG DRESS of FINE NAINSOOK, lace insertion and tucks, Valenciennes lace trimmed; value \$2.50.
- \$2.73 INFANTS' Long Dress of fine Nainsook, hand-somely trimmed in embroidery, lace and tucks, value \$4.00.
- \$3.74 INFANTS' Long Dress, yoke and skirt, elaborately trimmed with lace insertion, tucks and embroidery.
- 29c INFANTS' Long Skirt, plain hem and tucks; value 40c.
- 69c INFANTS' Long Skirt of Nainsook, wide embroidery ruffle, cluster of tucks.
- \$1.18 INFANTS' LONG SKIRTS of FINE LAWN, deep ruffle, 2 rows of wide insertion of Valenciennes lace.
- \$1.39 Infants' Short Dress of lawn, embroidery and insertion, trimming; value \$2.00.
- \$1.66 Infants' Short Dress, embroidered yoke with ruffles; value \$2.50.
- 23c INFANTS' SHORT SKIRT, plain hem; value 35c.
- 43c Infants' Short Skirt, lace or embroidered ruffle, finished with cluster of tucks.
- 92c Infants' Short Skirts of fine Nainsook, wide embroidery ruffle, cluster of tucks.
- 23c Infants' Short Slips embroidered yoke, ruffle on neck and sleeves; value 35c.
- 39c Infants' Short Slips, tuck-yoke with ruffle; value 50c.
- 59c Infants' Short Dress, nicely trimmed, with lace or embroidery; value 85c.
- 98c Infants' Short Dress of Nainsook, embroidered or tucked yoke; value \$1.40.
- 59c Infants' Short Flannel Skirts, embroidery trimming.
- 69c Infants' Short Flannel Skirts, 4 rows of silk feather-stitching and hemstitched; value \$1.25.
- \$1.39 Infants' Short Flannel Skirts, heavy silk embroidery; value \$2.00.
- 14c Infants' Long Outing Flannel Skirts; value 25c.
- 27c Infants' Long Outing Flannel Skirts, wide hem; value 45c.
- 42c Infants' Long Flannel or Heavy Outing Flannel Skirts; value 75c.
- 89c Infants' Long Flannel Skirts, extra fine quality, plain hem.
- \$1.19 Infants' Long Flannel Skirts, silk feather-stitching and hem stitching, extra fine quality; value \$2.00.
- \$1.67 Infants' Long Flannel Skirts, silk embroidered, hemstitched; value \$2.50.
- 14c Infants' Short Outing Flannel Skirts; value 25c.
- 7c INFANTS' KNIT BOOTEES, assorted colors.
- 13c INFANTS' KNIT BOOTEES; value 25c.
- 23c INFANTS' Silk Bootee, assorted colors; value 40c.
- 89c INFANTS' LONG CLOAKS.
- \$1.59 Infants' Cream Cashmere long cloak, embroidered top and bottom; value \$1.25.
- \$1.79 INFANTS' CREAM CASHMERE LONG COATS; value \$2.50.
- \$3.98 INFANTS' \$6.00 CASHMERE LONG CLOAKS.
- \$5.92 INFANTS' \$10.00 LONG SILK CLOAKS.
- \$6.98 INFANTS' \$15.00 LONG SILK CLOAKS.
- \$11.99 INFANTS' \$20.00 LONG SILK CLOAKS.
- \$13.50

Laces and Embroideries

Our entire stock of Laces and Embroideries included in this sale at

Great Reductions

The Paris Millinery Co.