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MARBLE and GRANITE WORKS person, M. Lentheric, says about a NELL BROS. & KERN,

MANTELS, GRATES AND TILES Lentheric condemns the use of false IMPORTERS OF SCOTCH GRANITE,

238 & 240 STATE ST. ROCHESTER, N.Y. does he approve of dyeing the hair,

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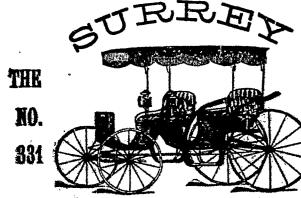
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LATEST NOVELTIES FOR WO-MAN'S SPECIAL USE

Fantastic Head Wear Being Revived by the Women of Paris-Some Fashionable Patterns in Wearing Apparel-Notes of the Modes.

Arrangement of Woman's Hair. There is a struggle in Paris to introduce the fantastic fashions in hair dressing which accompanied the odd toilets lately revived. The struggle. however, has been practically in vain, the most fashionable women refusing to be made conspicuous at the expense of their beauty. Most of them wear the hair frizzed and waved and arranged in a small chignon at the back; round this, when worn with evening



ARBANGEMENT OF WOMAN'S HAIR. dress, strings of pearls are entwined

or diamond revieres are placed. The illustration given above shows one of the more moderate variations of the 1830 style. It is simple indeed when compared with the towering loops and lows of hair which have been worn by extremists of late.

The chief coiffeur of Paris may be presumed to be the chief coiffeur of line. the world; therefore what that clever woman's hair will be of interest to most women who want to be as lovely as nature permits. In the first place though some hairdressers contend that dye is the only thing that improves the growth of the locks When undertaking to "dress a head" Lentheric takes all the hair in his hand and draws it up to the top of the head that he may study the shape of the skull; then he looks in the glass and watches his subject's expression, and then he begins his work. He declares that it is rare to find a woman whose head and face are well formed enough to bear the Greek style of bair arrangement. M. Lentheric, by the way, dressed the heads of all the historical figures in the French exhibit at Chicago.—Chicago Tribune.

Latest in Bonnets.

The very latest novelty in bonnets is a trifling affair not so large as were the head dresses of thirty years ago. They are really mere airy nothings, useful only as custom elects that some-thing shall be worn on the head, and they fulfill at least the letter of the law. They are used almost exclusively for dressy occasions and the most fashionable are white. One that is especially chic is a tiny confection of along each side of the crown. The

at once your address, and you will receive turbans of rough straw in two shades with the necessary explanation a nice Sou- of eeru are worn with linen suits. Toques are more fashionable than they



HEAD GEAR FOR DRESSY OCCASIONS. have been for some time past and the indications are that they will be a leading fall and winter mode. Just now they are of novelty braid that is fuzzy and soft as thistledown and is woven in small ruches row after row. The crown of the fashionable toque is quite low and wings are much used in trimming it.

Some Fashionable Garments. At a recent fashionable gathering opportunity was given to freely

study the unique, the grotesque, the artistic, the ridiculous and the picturesque. All the dragging skirte, which not a few women persist in still wearing, looked ridiculously out of place and uncomfortable. The smart tailor gowns, on the other bund, looked extra nest and trim by com-

parison. There is a bappy medium be-

tween a Nora Creins skirt, "floating like the mountain breezes," and a Lesbia a la closed umbrella, that commends itself to all but fanatics. An elderly lady added to a prominent voice an equally prominent gown of gray and scarlet, with very brilliant white steel frimmings. buns, moons and stars of the first magnitude b azed upon her corsage and shoulder-buffs. One bonnet that peeped from beneath a very swell canopy of silk and lace was made of a handful of rose leaves and a bunch of red cherries. Another was composed of a bg yellow poppy and one bud, that flapped affoat on the top of a twist of silver tuile. A very tall woman wore a large picture hat perched on her head at a duchess of Devonshire ang e. One lone, abnormally large "ranged sailor," with a few pinched-looking blue mate surround ng it, bobbed at the mercy of the stiff breezes. A rosy-cheeked brunette wore a bumble bee gown of black

and yellow, striped all over and em-

blazoned with gold ornaments, and

she dragged a lovely little child after

her, dressed to match herself in mini-

ature A charming dress was made of

reseda green silk, fine repped and lus-

trous. The vest, revers and cuffs were trimmed en applique with passementerie of a design of shaded green leaves

and briar roses. Her reseda straw hat

was decorated with mignonet e, ecru

silk lace and briar roses-a beautiful

gown on a beautiful woman. A white

China silk costume, trimmed simply with rows of the narrowest black velvet, with blue. lace bretelles. was charming. So ne of the 1530 gowns were excellent examples of what not to wear. They suggested the idea that a good sized vo ume of fashion "don'ts" would just now not be amiss. Trimmings for Various Fabrics. Stylish dressmakers are now composing handsome crepen gowns in golden brown reseda and tan shades, set screw with the outer end of a bent finishing them along their edges with rod, whose inner vertical portion is fine cut-jet gimps, and adding silk held in a socket formed in a belt guipure lace trimmings on the corsage. strapped around the body of the com-The new gold and bronze heading is positor, the arm being adjustably held also used to brighten black silk gowns, at the desired height by a set screw. and rich terra cotta and gold galloons show handsomely on black lace dresses. A vest and full shoulder-puffs of grayflowered brocade is added to toilets of black satin or faille. The brocade grooves about half-type high, extenddoes not appear on the skirt. Skirts ing in the direction of the length of of black satin are cut to fall in godet the column. In these grooves slide

while the fronts are closely gored and

of graduated width, the narrowest row

at the top being merely a glittering

Black for Autumn and Winter Wear. | the manner of setting up derricks for white fancy straw, with a cap-shaped | strong favor during the latter part of | a pontoon, and was connected by a Insures its members for \$250, \$500, crown and a brim of folds of mous- the season, and American importers flexible pipe with the engine, which seline de sole caught up into a chou have already telt the ripple of the drove a diamond drill at a very high in front. Two chour of white satin coming black goods wave. Black, how speed, this drill cut ng out cylindrihold two tiny white wings pointing ever, will not prevail over all other cal cores' which were raised to the dyes, but merely show as a color note surface and indicated the character of only large thing about this bonnet is in excellent contrast against the distance which was penetrated. The O'NEILL. 33 Wall St., Auburn, N. Y. the strings. These are of wide white play of rich autumnal effects—the line of borings thus made was eight and to push as far north as possible; changeable Panamas, two-toned wools miles long, extending from Cape Tor-As to hats, they are for the most and silk and wool goods, shot and mentine to Cape Traverse, the holes east to explore the unknown coast to part of medium size. The most popu- striped beng lines, melite, autumn were driven 1,500 feet apart, and Cape Bismarck, and thence will strike lar English sailor is of Milan straw sky and frost gray. Crepon effects in showed that the strate to be pened straight across the ice to the winter and has a double brim to make it very camel's hair weaves will appear, and trated were soft shale and sandstone. Save all cancelled postage stamps of every stiff and is about four inches wide. It whipcords, diagonals, English serges kind and country and send them to Rev. P. is trimmed simply with a riboon band and Henriettas will come in for a M. Barral, Hammonton, New Jersey. Give and a bow on the left side. English good share of patronage.

Fashion Items.

Already autumn fabrics are on the ground, and among them is a diagonal called drap d'Aima, which promises to be very popular. The goods is rich in appearance, is soft, pliable and easily manipulated.

The latest Parisian fad in parasols seither covered or bordered with gems. It is called the Juno, and in the sunlight is really resplendent. This is an especially adjunct to a rich oriental toilet.

Accordion-plaited waists of black mousseline de soie are wore over decollete sleeveless waists like the skirt which completes the costume. An accordion-plasted waist of this kind can be worn with various gowns.

Delicate colored foulards are flecked with white and black and are fancifully made with trimmings of guipure or black French lace with a waistband and collar of black velvet ribbon. On these black velvet trimmings are set rows of lace insertion.

A very popular thin dress just now is point d'esprit net, either white or ecru, over surah batiste. The skirt is made full and the bodice is gathered. About the waist is an empire sash with long ends. Over the huge, airy sleeve puffs are wide lace bretelles and the skirt is without trimming.

A fashionable wedding present is a lace parasol in black and white. A parasol of this kind is accompanied by a case of black satin drawn together at the top with a satin ribbon. This case, which is a long, narrow bag, is lined with silk and between the two materials are placed violet sachets.

While Vanity Fair is at the seaside garments for autumn wear are arriving from the other side of the sea. Among these are English tailor made jackets, double-breasted and straight in front, with the back slightly flaring below the waist. The back is cut bell shape, consisting of single seam gradual y widening on either side to the

OF SCIENCE. FIELD

LATEST DISCOYERIES OF THE WONDER WORKERS

Peary's Proposed Explorations in the Arctic Regions-Chemico-Metallurgical Phenomenon-New Mechanical Ap: pliances-Some Interesting Reading.

An Improved Printer's Composing Stick. The illustration shows a compositor's stick designed to be conveniently supported from the body, instead of being held in one hand, so that both hands may be utilized in setting up the type, the stick being also provided with a yielding mounted plate to hold the type in place while-the line is being formed. The bottom



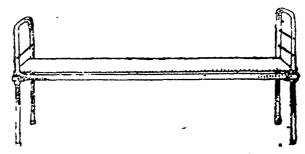
PRINTER'S COMPOSING STICK. plate of the stick, where it is usually held in the hand, is connected by a means of which the length of the line is regulated, and also in the end piece at the outer end of the line are or funnel-shaped plaits in the back, | lugs on the end of a yielding mounted | plate, fitting the measure to which the the whole trimmed with rows of jet stick is set, as would a compositor's rule, but the plate is straight only on its lower portion, its upper part being bent or rolled outward to form a mouth-like opening for conveniently and an ordinary printer's rule. In lead will answer the purpose of the positor to place the type in position without following the motion of the hand with the eye. The ends of a will proceed north to explore the unspring band, extending over a part of known lands beyond the mainland the stick, engage the lugs on the ends of the sliding plate, and hold it yieldingly against the type as the line is being formed, so that it is not necessary to hold each piece in place by the thumb until the next one is inserted, and both hands may be used to pick up the type from the case and place them in position in the stick.

Boring Under the Sea.

The engineering work for constructing a tunnel under the Northumberland Straits, between Prince Edward Island and the majn; and has involved some test borings to determine the strata through which the tunnel is proposed to be cut. These borings were carried on in a tideway, with a current of four miles an hour. For this purpose an engine was mounted on a platform on the top of a fourinch pipe, furnished in twenty-foot lengths which rested on the bottom of the straits and was trussed to prevent bending; heavy guy ropes attached to anchors held the pipe upright, after In Europe black has come into buildings. The boiler was carried on

A Strong Bedstead.

An iron bedstead especially adapted for use in prisons, insane asylums, wrenched from the bed and used as weapons. The head and foot pieces the posts. On each post is an ordibars, which are simply pipes screwed



INDESTRUCTIBLE BEDSTEAD. into the nipples of the couplings and fastened by bolts. At the head and foot are transverse angle irons, having perforations to which the mattress may be fastened, each iron being recessed at the ends to fit against the couplings, and having end straps bent around and f stened to the nipples by bolts, whereby all 'he parts are firmly bound together. The woven wire mattress is stretched from one end are doubled under straps of bars fastened to the tops of the irons by bolts,

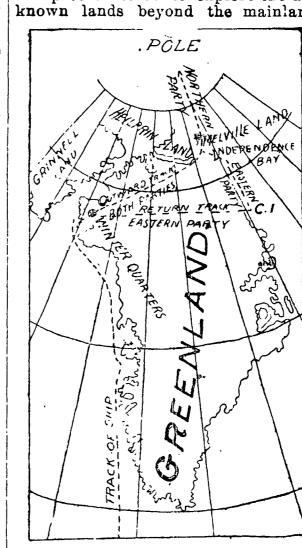
Mining Gold with Wate.4

▲ London company has projected a vast water scheme to enable the gold d-posits in the interior of western Australia to be worked with advanstates that, having known for many years of some rich go d country, which of there being no water within 100 miles, and having studied the formation of Australia, he concluded that there must be water beneath the sur face, if it could only be reached; that is, the whole country being shaped on the surface somewhat like a basin, and the interior being far below the sea level, the fact was obvious that the heavy rains and floods of the winter season, which flow from the high coastranges, must settle somewherein a word, the interior is the place that it goes to. Afterrepeated efforts, a bore was put in, with the result of obtaining a fair flow of brackish water. The plan now in view is, with sufficient machinery, to reach the greater depths, where, it is believed, there is an endless supply of fresh water to be made available by means of artesian wells.

Hamburg's Water Supply.

The new plan for furnishing the city of Hamburg with pure water involves an immense plant, the water to be pumped from the Elbe at a point about a mile and a half above the present intake into four large basins, settling and clarifying in these for twenty-one hours. From these basins it will flow in a large covered main to the filter beds, eighteen in number, here filtering down through a layer of sand at the rate of two and a half inches an hour, the purified element then flowing through a second covered channel to a covered clear-water reservoir holding about 2,640,000 gallons, and designed for the purpose of equalizing the demand for water, a much greater quantity being required, of course, during the day than at night. By means of such a reservoir the filtration can be carried on at the same rate at all times, while any unusual increase in the demand for water can be met by the purified supply thus stored. From this reservoir the water is pumped to the service mains by five compound vertical engines, each able to deliver some twelve million gallons in twenty-four hours, and four engines being sufficient for pumping the estimated maximum supply, a wide margin of reserve power exists for an emergency. The filter beds are uncovered and are rectangu-In the L-shaped adjustable piece, by lar in plan as a rule, with sloping sides of clay protected by brick, and the filtering material consists of a top layer of sand from two to three and a quarter feet thick, resuing on two feet of gravel, the water having a depth of three and a quarter feet over this filtering material. Each of the filter C. H. NASH, beds has an area of a little over eighty thousand square feet.

Mr. Peary has sent from Labrador a Difficult Bicycle Repairing a Specialty. inserting the type between the plate work. The map shows the winter case of leaded matter, the spacing which, in March next, eight or nine printer's rule. This enables the com- land ice to Independence Bay. Their men will start with sledges on the inroute over the ice is slown on the map. At Independence Bay one party



PEARY'S PROPOSED WORK. while the other party will turn south-

Chemico-Metallurgical Phenomenon. A chemico-metallurgical fact of some interest is mentioned in Iron in connection with the brass condenser etc., is shown in the picture. As will tubes of a foreign cruiser. It seems be seen, it is made of but few parts, that the pipes, after being in use for strongly put together, and there are more than twelve months, were found no legs or other pieces which can be to have experienced a peculiar change, in many places the metal having been converted into almost pure copper of a each consist of a single length of bent spongy texture, the zinc of the alloy iron pipe, the opposite posts thus having completely disappeared. An being connected by cross braces which investigation which was made showed are simply iron rods extending through the probable cause of the phenomenon to have been an electrolytic action benary T-coupling, held in place by a tween the tin lining of the tubes and bolt, the couplings supporting the side the brass, the sea water circulating through the condenser forming the electrolyte. It is suggested that, had the tin coating remained in a perfect condition, doubtless no corrosion would have taken place. The mud and grit, however, conveyed in suspension through the condenser carried away the coating in spots, and it was at these points that the transformation of the metal occurred. Pipes not tinned would probably have remained intact.

Blasting Explosives. Some of the essentials of a practic-

able explosive, as enumerated recently in a lecture by Prof. Clowes, are that the substances-when employed for blasting-be self-contained and burn independently of the air; they must be able to undergo the explosive change with great rapidity, generating much gas or vapor and much heat by exploangle iron to the other, and its ends | sion, and must be compact and easy of transport, and not generate noxious or poisonous gases or vapor; when thus firmly clamping the mattress in used in coal mines they must not be able to fire air containing dust or fire coal damp. Though blasting powder answers most of these requirements, it is unsuitable for the coal mine, because it ignites fire damp, and the more powerful dynamite and blasting gelatine are safer than gunpowder in tage—this by means of artesian well | this respect. Any combustible gas or water. The originator of this p an vapor can produce an explosion if it is suitably mixed with air, and the mixture is fired. Accidental explosions it was impossible to work on account occur from this cause, but the explosive course is also utilized in the gas and petroleum engines.

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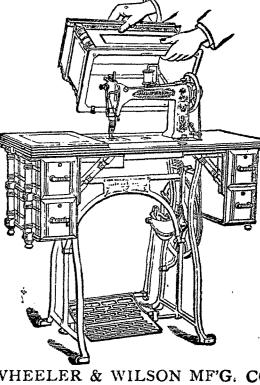
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