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SPORT SILKS.

Brilliance of coloring and surprising combinations characterize the new sport silks which have just arrived in the big stores.

Plaids, stripes and spots of various sizes and great diversity of shapes are found among these silks, and the vivid, oftentimes startling color schemes are most interesting. The comparatively few plain varieties are supposed to be chiefly for evening wear, although even these may be used in combination with the coat of one color and the skirt of another for street wear. In fact, they are not supposed to appear alone for the evening, but to be used in pairs at least, according to the latest rumors of spring fashions.

Heavy shantung pongees seem to be leading in favor, with georgette crepes and satins following closely after. All of them have the great advantage this year of being woven on broad looms, which, of course, spells both ease and economy for the dressmaker.

Robin's egg blue is scheduled as a leader on this spring's color calendar, and a highly successful season is expected for it. Some of the combinations in which it is destined to play a part are certainly surprising, to put it mildly. They do not sound exactly at the tractive in words, perhaps; but, contrary to all expectations, they really do look well when put together properly.

"Be careful never to throw them at each other," warns an expert. Then he proceeds to gather up handfuls of soft, rosin, the robin's egg blue in one hand and violet in the other. After the first start of surprise one realizes, as he twists them deftly together, that they really do harmonize after all, that the effect is beautiful. Another of the new combinations he shows is robin's egg blue and brass, for less startling than the first and quite pleasing. Charade georgette crepe also and this same robin's egg blue combine very well indeed, and the effect is particularly pleasing for evening wear.

A YOUNG SHEPHERDESS.

Little Honey is completely gratified with this flock of white velle dotted with pink rosebuds, a wreath of



THESE PANNIERS.

which bands along with a ruche the horsehair hat. Double panniers edged with val and a crushed girdle of pink ribbon exactly please us.

Relishes For Meat.

- With roast beef, grated horseradish, roast veal, tomato or horseradish sauce.
- Roast mutton, currant jelly.
- Roast pork, apple sauce.
- Roast lamb, mint sauce.
- Roast turkey, chestnut dressing, cranberry jelly.
- Roast goose, tart apple sauce.
- Roast canvasback duck, apple bread, roast currant jelly.
- Roast quail, currant jelly, celery sauce.
- Roast chicken, bread sauce.
- Fried chicken, cream gravy, corn fritters.
- Roast duck, orange salad.
- Roast ptarmigan, bread sauce.
- Cold boiled tongue, sauce tartare or olives stuffed with peppers.
- Veal sausage, tomato sauce, grated Parmesan cheese.
- Lobster cutlets, sauce tartare.
- Reed birds, fried hominy with celery.
- Cold boiled fish, sauce piquante.
- Sweetbread cutlet, bechamel sauce.
- Frizzled beef, horseradish.
- Pork croquettes, tomato sauce.

Scissors Hints.

If you have a sharp pair of scissors in your kitchen here are things they will help you do:
When cutting meat, celery, marshmallows, pimento for salads, or carrots, cabbage, onions, parsley for soups, nothing could be more useful than a pair of scissors. This is also true when cutting citron, lemon or orange peel or tuff candy.
Rhubarb sauce will have a better color and flavor if the stalks are cut with scissors instead of a knife, as the scissors do not remove the skin.
A fowl is more easily disjointed with scissors than a knife. The work is done more quickly, and there is no splintering of the bones.
These are only a few of the uses for scissors in the kitchen, besides the ordinary use of cutting strings and shelf papers.

ARMORED VESSELS

How the Great Steel Plates That Protect Them Are Made.

A SEVERE TEST OF SKILL.

The Various Processes That Produce the Conflicting Properties Necessary in These Modern Projectile Resisting Warship Jackets.

Only armored warships could live in a naval battle with modern big gun projectiles in use, and hence the making of armor plate has become a science. The manufacture of armor plate has developed considerably in recent years, and in no branch of the steel industry is there greater opportunity for engineering and mechanical skill, coupled with metallurgical knowledge, than in the operations of forging and rolling, followed by the exact heat treatment essential to produce the almost conflicting properties necessary in modern armor.

The plate must be hard, glass hard, to resist penetration by heavy projectiles moving at tremendous velocities, yet tough and fibrous enough to take part in the momentum without cracking or distorting. Mechanically, then, the plate must have an extremely hard surface and a fibrous backing. These requirements were attained in part by the old compound armor. Molten steel was poured on to a wrought iron plate and cooled. The slab was then reheated, forged and rolled to the required dimensions. If the operations were successfully carried out the line of demarcation was scarcely visible.

Recently a modification of this process was introduced to cheapen and render less tedious the production of armor. A layer of hard steel was poured into a cooled mold, the underside quickly setting. On the still fluid or pasty surface a thick layer of soft steel was poured. By careful manipulation the union of the surfaces was almost complete, and it was impossible to detect the break in composition on viewing the fractured section. This method of manufacture was undoubtedly an improvement on the old compound method.

The increasing size, velocity and hardness of modern armor piercing projectiles have necessitated the introduction of the modern armor. The process of manufacture essentially consists in case hardening to a depth of about two inches the surface of a homogeneous tough nickel chrome steel. Special air or self hardening nickel and more complex steels are used for lighter armor, gun shields and cast armored structures. The steel is made in Siemens furnaces and carefully cast into ingots up to eighty tons in weight. These ingots are then slabbed under powerful hydraulic presses (18,000 tons) or rolled direct to the required dimensions, depending on the power of the mills and appliances. During the rolling operation, which lasts about an hour, the slab is reversed and inverted to attain uniformity of working, and scale is removed by wood fagots and water jets. After rolling the plate is usually quenched.

The next operation is that of case hardening, and in this two plates are put face to face, separated by a layer of the carburizing reagent if it be solid, or if gaseous hydrocarbons be used the plates are slightly separated, to allow free passage for the hardening gases, by bricks arranged in rows. The plates are maintained at redness in a ear furnace for three weeks and withdrawn after the hardening carbon has penetrated to the required depth. The plates are thus carburized and so made capable of being hardened, but they are not yet actually hard. At this stage all holes are drilled and plugged, and any bending or machining necessary is carried out.

From this point onward the treatments differ. Some makers insist on heating and quenching in oil or water to remove any coarse structure that may have been formed during the long annealing while carburizing. The next essential operation is that of hardening, and this is usually carried out in one of two ways. Either the plate is uniformly heated to the hardening temperature and quenched by a series of water jets playing on the upper surface with sufficient force to prevent the formation of steam or by a process known as "differential quenching," by which the carburized surface is heated to a temperature from which it will harden and the under side kept well below, so attaining a gradual fall in temperature from the top to the bottom. The whole plate is then immersed in water, the hotter surface alone being hardened, while the bark is toughened. Further mechanical operations can be carried out only by grinding or cutting with oxyacetylene, as the plate has now undergone the treatment conferring maximum hardness.

In resume, it will be noted that there are three distinct operations in modern methods of manufacture—the mechanical working of the plate to the required thickness, the carburization of the surface, quenching the carburized surface to harden it. These operations call for exact manipulation, supervision and control, for the skill of the engineer and metallurgist may be put to the severest tests, not of the laboratory or the testing machine, but out in the "gray mist," when failure of a unit may imperil the safety and cohesion of the whole.—Chambers' Journal.

One that confounds good and evil is an enemy to good.—Burke.

What Makes a Good Road.

Everybody agrees that the surface of a road must be oval in its contour, says Faim and Fireside, but some all understand that this oval ought to be as flat as the character of the road material and the lay of the land will permit. With brick or concrete construction the oval may be very flat, because the traffic makes no ruts to carry the water lengthwise of the road, nor does the pavement soften and develop depressions when kept in contact with water. But broken stone (water bound macadam), being susceptible to penetration by water and subject to great damage if frozen while soaked, must be given a higher oval, and for gravel roads a still steeper pitch is demanded. As for earth roads, the steepness must be governed by the combined influence of a number of factors. Perhaps the leading factor is the quality of the earth in each particular case. And next might be placed the presence or absence of "seeps" or "spouts," while another of these vital factors would be the longitudinal pitch of the highway.

Pocahontas and Mrs. Wilson.

It was on the 21st of March, old style, in 1617, that Pocahontas, loveliest and most celebrated of all Indian women, died in England, on the eve of her projected return to her native land. The climate of England did not agree with Pocahontas, and she was already in a state of decline when she proceeded to Gravesend with her husband, John Rolfe, and her infant son, Thomas, purposing to take passage on a ship bound for America. She had no sooner reached Gravesend than she was stricken down with smallpox, to which she soon succumbed.

Thomas Rolfe, the son of Pocahontas, had a daughter named Jane, who, in 1675, married Robert Bolling, a young Englishman who had settled in Virginia. Jane had one son, and he in turn was the parent of one son and five daughters. This son's great-grandson was William Holcomb Bolling, the father of Mrs. Woodrow Wilson—New York World.

Da Vinci's "The Last Supper."

During the last years of the fifteenth century Leonardo da Vinci executed for the Duke of Milan his masterpiece of painting, "The Last Supper," a wall decoration in the refectory in the monastery of Santa Maria delle Grazie, Milan. Owing chiefly to his use of oil colors directly upon the wall, to neglect and to vandalism, only a ruin of the grand original remains. But, while for purposes of study it is necessary to refer to the many copies by Da Vinci's pupils, the best of which are those by Marco d'Oggiono, in St. Petersburg and in the Royal Academy, London, and to Raffaello Morghen's excellent print, the original alone gives the true though faint idea of the wonderful lighting and melting color. The painting was in every respect epoch making, no less in pictorial qualities than in the remarkable composition.

The Gaucherie of Soldiers.

Soldiers when marching at night through open country invariably gravitate toward the left, not to the right. This is the experience of an old soldier, who thinks the tendency is due to two causes: First as the rifle is carried in the right hand it naturally follows that the weapon arm must be kept free, and in case of pressure when in close formation, the instinctive rule is to put up the left elbow and say, "Ease off to the left." Second, the soldier always steps off with his left foot, and, although it may be hard to prove, there is always a slight deviation to the left, even when a battalion is marching in daylight toward a fixed point or any other point of support.—London Chronicle.

Her Recommendation.

A woman prominent as a social worker was in the city to engage a new girl the other day. She visited an employment agency which makes a specialty of finding places for country housemaids and was much pleased with one from the country. "Why did you leave your last place?" asked the woman. "I didn't have no last place," answered the girl, "because I ain't had no last place to leave, and I'm still working at it, being for myself that I've been working, and I'm sure I'm a good servant, and I can recommend myself to you, ma'am."—Exchange.

Fanfoot Lizards.

Lizards are abundant in Palestine, Arabia and Egypt. Among these is the fanfoot lizard (Ptyodactylus gecko). It is reddish brown, spotted with white. The geckos live on insects and worms, which they swallow whole. They derive their name from the peculiar sound which some of the species utter.

Woman's Aim.

A bullet shot upward from the earth goes up to aphellon with a retarding or decreasing motion, but a bullet fired by a woman at a burglar will turn a street corner and hit an innocent pedestrian in the leg nine times out of ten.—Florida Times-Union.

The Uplift.

"Is she a help to her mother?" asked one woman. "Yes, indeed," replied the other. "She has taught her to say 'culinary' instead of 'cooking.'"

One of Those Crazy Questions.

"Well, great-guns, Jones! I see you're wearing glasses. What for?" "For a sprained knee, you darned fool! What do you suppose?"

The diminutive chains of habit are seldom heavy enough to be felt till they are too strong to be broken.

FAMILY FRIENDS.

One Food For Thought In a Supreme Case—Made by Justice Lamar.

In the will of the late Justice Lamar of the United States supreme court there was one very unusual legacy. He bequeathed his friendships to his family. "To my family," the will runs, "I bequeath friendships many and numerous in the hope that they will be cherished and continued. True friendships are the most valuable of our earthly possessions, more precious than gold, more enduring than marble palaces, more important than fame. As Henry Drummond has well said, 'Friendship is the nearest thing we know to what religion is.'"

The family that inherits such wealth is truly rich. But it is a legacy that must be used if it would be preserved. Friendships cannot be locked away in safes or lent to historical exhibits and museums. Like love and faith and courage, they belong to that intangible treasure of the soul that must be kept from destruction by constant service. It is not alone material things that "rust doth corrupt."

How many of us have let slip through busy or careless fingers the beautiful and glowing friendships of our youth? We did not mean to do it. Indeed, we have often regretted the loss until, as the years pass, the years gradually fades away. And if that is true of our own friends how far more true of our fathers' friends! For there have been families where friendships have passed down from father to son for several generations.

There is food for thought here. How many fathers are building up fine and loyal and serviceable friendships that they can wish to bequeath to their sons? How many mothers are storing up like treasures for their daughters? The question does not end there. How many young people of today are fitting themselves to receive such legacies? How many in all the varied and urgent calls of life are heeding the challenge to make themselves worthy of friendships by being loyal and fine tempered and generous friends themselves?

"A man that hath friends," the old Book of Wisdom declares, "must show himself friendly," and again, "Thine own friend and thy father's friend forsake not."—Youth's Companion.

Foys Bewilder Birds.

It is a curious thing that, though human beings are utterly bewildered in a dense fog, most animals find their way through it without much difficulty. A horse will trot along in its right direction as though the air were perfectly clear, and not only that, but will take the right turning at the right moment if it is at all accustomed to the road. A human being would take any turning but the right one. Birds, on the other hand, are utterly bewildered by fogs. Pigeons, for instance, will remain motionless all day long, half asleep, huddled up in their pigeon houses. Chickens and poultry of all kinds won't stir all the time a heavy fog is about. Birds of all kinds, as a matter of fact, seem helpless during foggy weather.—Pearson's.

What America Has Proved.

America has proved that it is practicable to elevate the mass of mankind—that portion which in Europe is called the laboring or lower class—teaches them to self respect, to make them competent to act a part in the great fight and great duty of self government, and she has proved that this may be done by education and the diffusion of knowledge. She holds out an example a thousand times more encouraging than ever was presented before to those nine tenths of the human race who are born without hereditary fortune or hereditary rank.—Daniel Webster.

Have Thou Moderation.

"Have thou moderation in all things; keep thyself from wild joy and from wallowing sorrow; strive to hold the mean in harmony and concord, like the strings of a well tuned harp," said Pythagoras. "To possess a sane outlook on life is a prime requisite for living long," says Dr. C. H. Lewis in the New York Outlook. "Serenity, courage, poise, determination, all are important factors. It may be that there is a physiologic center which controls the ageing of the body, as is claimed, but even so we may be sure that it reacts to these psychic influences."

He Told Her.

A middle aged governess on arriving at a new situation was formally introduced to the family, and the next morning Master Tom, the hopeful of the family, said to her, "Miss Farker, are you Leghorn or Cochina China?" "Why do you ask such an extraordinary question?" she asked. "Because," answered the boy, "I heard dad say to mummy after you left the room last night that you were no longer a chicken."

Discouraging.

A prominent English clergyman once congratulated an old lady on her bravery in fighting her way to church against a terrific tempest, but received the discouraging reply, "My husband gets so cross grained after meals that I have to get out of his way, so I might as well go to church."

From an Economical Viewpoint.

"Do you believe in early marriage?" "Yes. With the cost of living here it is now I'm inclined to the belief that the sooner the girls are married off the better."—Detroit Free Press.

The price of true success is patient toil. Never give up until you have tried every means to attain your end.