### Minting Money How the Metal is Transformed Into. Bright Pieces of Money. HE Director of the



leans, turning six hundred tons of silver into subsidiary coin. The Southern mint is working at its full capacity now on silver dol-Inrs alone.

From the ingot to the coln is a rapid journey at one of the mints. It begins In the "weighing room," where stands the pair of balances that receives all the metal brought in. The scales in Philadelphia mint are said to be the largest and finest in the world. They hav a capacity of 685 pounds, but exhibit instantly the variation of



MILLING THE COIN.

one-hundredth of an ounce. The sys tem of weighing and recording begun here is carried out with every transfer of the metal until it is delivered as coin to the cashier.

After leaving the weighing room the silver or gold, as the case may be, is sent to the melting room, where it is dumped into the huge plumbago crucibles. After melting, the coin material is cast into bars, and when cold a fragmen, is cut from each, which is sent to the assay office. The assayer ascertains the proportion of pure metal in the bar and amount of alloy needed to bring it to the required standard. The bars are again melted. the alloy doled in, and the metal then cools in bars about a foot in length. half an luch in thickness and regulated in width according to the size of the coin to be manufactured.

In the melting room for gold and in many other departments of the mints the floors are overlaid with hexagon latticed iron plates, through which fall the small particles of gold that adhere to the shoes of the operators. The sweepings of the floors are even saved and treated for the gold and silver dust. Director Roberts is an-

#### occococococococococococo The planchet leaves this operation with its edges turned up to protect the device which is stamped on later Many persons call the fluting or "reeding" on the coins the "milled edge.

This is an error. Before the final stroke is given the coin that will make it an obligation of the United States Government it goes to the cleaning-room, for, after it has passed through so many processes it is black, greasy and anything but sil-very or golden. They are heated to a dull red ...nd dipped into boiling acid, which very quickly removes every trace of grime or grease. The planchets are dried after their acid bath in revolving cylinders filled with sawdust. They come out bright and shining, and are finally hustled into the colning-room, whence they become full-fledged pieces of money.

### FOR FOG AND NIGHT SIGNALS. Gas and Bell Buoy, Which Burns Three

Months and is Seen Six Miles. Remarkably effective as an aid to navigation is a gas buoy which at the same time is a bell buoy. It is likely to play an important part in the protection of the shipping of this port, as well as being a most important factor in increasing and developing the commerce of New York. This is so because through the proper use of these buoys this harbor could be made navigable at any hour, at low tide as well as when the tide is full, while fogs and thick and stormy weather would no longer be a bar to the free and expeditious entry of ships of all

tonnage The height of the buoy over all in eighteen feet. From the water line to the focal plane it measures ten feet six inches, and the diameter of the body of the buoy is seven feet, the total weight being 6860 pounds. The body of the buoy forms the receiver for the compressed gas, and is of sufficlent size to give buoyancy for flotation and of adequate strength to safely hold a pressure of 150 to 180 pounds per square inch.

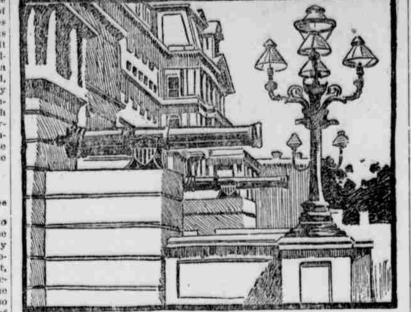
On top of the body is a wrought iron tower about six feet high, surmounting which is a lantern. Surrounding the lantern is a cage for protecting it, and the tower is provided with a pla' form on which to stand to light or adjust the flame.

Just below the platform is suspended a bell weighing 185 pounds. This bell is sounded automatically every twenty or thirty seconds, or indeed at regular intervals of any duration, all of which may be predetermined. The flow of the gas from the receiver to the la"tern furnishes the means of operating the bell. Thus a reliable



## SPANISH GUNS TRAINED ON THE WHITE HOUSE.

Two of the cannon captured by Dewey at Manila, May 1, 1808, now adorn the east front of the War, State and Navy building, in Washington, pointing toward the White House. One of them, called the Belicosa, was



cast at Manila, October 23, 1789. The other, called the Carduna, bears the monogram of Carlo, IV., and was cast at Seville, February 21, 1777, The crown of Sp.in is cast on each. The present mounts, provided by the Navy Department, are gilt shields, bearing the Stars and Stripes.

Curious Method of Making Wax.

Renalisionen seksen en son ander son sen seksen en son seksen son seksen son seksen son seksen son seksen son s The white wax exported from China is made by the curious method of using minute insects in its production. These insects are found in brown, penshaped excrescences or galls attached to an evergreen tree called the "insect tree.' The galls are gathered in May and carried in headlong flight to the market towns by bearers, who travel at night so that the heat may not force

the insects to emerge during the jour ney They are then placed on the "wax tree." which is a stump varying from three to twelve feet in height, with numerous branches rising from the top used to build their bread-ovens. Seen similar to the pollard willow.

The wax insects are made into small ances look like something between an



ger can be easily manipulated while

the hand is closed over the sword grip.

Mexican Bread Oven.

The accompanying photograph shows

at a distance these peculiar contriv-

# THE REALM OF FASHION.

New York City .- The Eton jacket in its various modifications makes the accepted short wrap for street wear. The May Manton model here Illus-



ETON JACKET.

trated is one of the best and most available, as well as the latest offered. It can either be turned back to form long, tapering revers or closed double-breasted style with one in expected to carry his sword in one hand, and if his horse is at all fracshort rever turned back from the right side. As shown, the material is veltions or hard to guide he has very litvet with revers and collar of Persian the opportunity to defend himself with lamb, and the jacket is designed for his pistol, and there has been inwear with various skirts, but cloth stances when if a revolver was within easy reach an officer could have saved and chevlot are equally suitable for his life instead of watching an enemy the purpose, and the design is also appropriate for costumes of broadcloth, aim his gun and fire before the doomed man could reach the pistol. The adzibeline and all the range of suiting materials. The revers and collar can vantage of this combination weapon will therefore he easily understood, as be of any fur desired, Persian cloth, astrachan or velvet, or can be of apthe officer could easily swing the point plique of cloth or silk over white, or of the sword toward the enemy in a shorter time than a gun could be covered with braiding on the cloth raised and fired. The arrangement of foundation. the two weapons is such that the trig-

The fronts are fitted by means of single darts and are joined to the seamless back by under-arm gores that are curved to fit the figure snugly and gracefully. The fronts are faced and rolled back to form the revers. The the manner in which the Mexicans high collar is cut in sections that ensure the necessary curve and flare. white laid in tiny tucks, but dark blue,

Fancy Buttons.

Buttons are extravagant and fanciful. Parisian diamonds and old French enamel, or anything really good, can be utilized for this purpose. The little coatees, made either double or single-brensted, require buttons of some kind, either three at each side or three at one side, though, if they be very large, only two need be used. Then; plain serges and tweeds are finished with velvet collars and curious gun-metal buttons suited to this style of garment. Dull gray rough slik buttons like those used on men's coats have a chic of their own, and are undeniably good taste.

Long-Stemmed Roses on Hats. Some novelty hats are being trimmed with two immense roses and nothing else. These roses have stalks about twenty inches long. The flowers are placed in the front of the hat, either on one side or in the centre, and then the long stalks are arranged round the crown like ribbons. The effect is certainly very charming.

Deerskin Gloves Lined With Silk.

Soft and warm and pretty are gloves of deerskin, lined with silk. Antelope skin is taking the place of gazelle-skin gloves, as they are stronger and softor and come in delightfully soft colors,

A Detail.

One feature in the detail of the bodlee is a lacing of gold or silk cord across the shoulder seam, each point tucked down with a tiny gold button.

Boys' Vestee Kill Suit.

While a few mothers allow trousers at four, such models as the charming little suit shown tre usually called upon to fill the gap between babyhood and the mature age of five or six. The May Manton killed skirt illustrated covers them gracefully, yet leaves them free, and the suggestion of coat, waistcoat and shirt gives sufficient of the mannish element to satisfy both the mother's pride and the boy's ambition. As shown, the material is broadcloth in dark automobile red with trimming of black braid with gold buttons, and shield, or shirt front, of



thority for the statement that more than \$20,000 is thus saved annually.

The rolling room next receives the metal, which is passed between powerful circular crushers at the rate of 200 bars an hour. The bars come out as ribbons the proper thickness for strips from which to cut the "plan-These last named are coins in the plain before they receive the stamp or are milled. Before the planchets are cut, however, the ribbons pass through several presses to bring



them to the proper hardness and to them to pass muster in the way width and thickness to the breadth

> the planchets are cut the gins to look like coin. The ces drop from this marvelhine at the rate of 250 a though when pressed of 280 can be attained. The d strips go back to the cruci-

> > the planchets go to the Here they are carefully who are wonderfully se that are up perfect plan adjusting a



sounding of the bell warning is secured without any dependence upon the action of the waters, as is the case with the old-fashioned bell buoys.

The advantages of these buoys can be easily understood, for they not only furnish a fixed or flashing light, that can be seen a distance of between six

and eight miles, but operate in combination, and most successfully, a bell, thus affording a double protection to mariners. These buoys will burn continuously day and night, from three months to one year, with one charge of gas, and may be rented for about fifty cents a day, including the cost of gas. Buoys of this type without the bell attachment are used very largely by all the civilized nations of the world, and are officially recommended. England has 236 in service, France 223, the United States 134. Germany 98, Holland 60, Denmark 21, Egypt 112, Canada 46 and Italy 15,-New York Herald.

### Ridding Havana of Dogs.

Havana used to be overrun by ownerless dogs almost as badly as Constantinople. The mangy curs were everywhere about the streets. Since the American occupation the work of clearing Havana of these nuisances has been going on, and now the streets are comparatively free. In the last year nearly 6000 dogs have been captured in the streets and killed by the municipal dog-entchers.

### The Kaiser's Speechmaking.

journalist who has often been called upon to make a stenographic report of a speech by Emperor William deckres that the Kaiser speaks slowly at first, but gradually gets faster and faster, until it is impossible to him verbatim. The reporters, he short, generally writ, down what they can, and, by comparing notes af-terward, concoct a tolerably accurate rt of what he said.

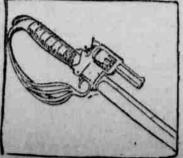


packets of twenty or thirty galls, ant-hill and a Kaffir hut, and, alwhich are inclosed in a leaf of the though it took several hours to bake wood oil tree fastened together with the bread in them, they seem to have rice straw. These packets are sus- answered their purpose pretty well. pended close to the branches, under Now, however, the Mexican is getting which they hang. On emerging from an appetite for new things, and his

the galls the insects creep rapidly up the branches to which they attach themselves, and begin forming a conting of wax that in about three months attains a thickness of almos a quarter of an inch.

The branches are then cut off, and after removing as much of the wax as possible by hand they are put in a kettle of hot water, when the remain ing wax floats on the surface and the insects finish their term of usefulness by going to the bottom.

Weapon For Officers' Use. Here we illustrate a combination



COMBINATION SWORD AND REVOLVER. ed and pistol recently patented in id by B. Reyes, of Monterey, and is perhaps the largest on record

The sleeves are two-seamed and flare over the Lands, where, as shown, they are finshed with bands of fur.

To cut this jacket for a woman of medium size four and one-eighth yards of material twenty-one inches wide, two and a quarter yards forty-four inches wide, or one and three-quarter yards fifty inches wide, will be required. 171.2/8.

#### Woman's Blouse Waist.

The simple flannel, cashmere, and Henrietta waists made in shirt waist style, but with variations in detail, take precedence of all others for morning wear and all those occasions that call for informal dress. The very pretty May Manton model shown in the large cut exemplifies the latest cut, and it includes all the newest features. As illustrated, it is designed for afternoon home wear and is of cream white flannel with stitched bands of gray, but can be duplicated in any color and combination preferred.

The foundation for the waist is a lining fitted by means of single darts, shoulder seams and under-arm seams, and which closes at the centre front. On it are arranged the back and fronts that extend below the waist, and to it is attached the shield with the pointed stock collar. The right side of the shield is attached permanently, the left is hooked over into place, and the stock closes invisibly at the centre back. The left front is attached to the front edge of the lining, but the right is left free and hooked over onto the less beneath the stitched band that finishes the edge. The sleeves are in bishop style, and finished with slightly flaring are pointed bands or cuffs that hook over at the seam, where a short opening is invisibly finished.

To cut this waist for a woman of medium size four yards of material twenty-one inches wide, three and a half yards twenty-seven inches wide, or two and a quarter yards forty-four

inches wide, will be required, with three-quarter yard of material twentyone or twenty-seven inches wide, or one-half yard forty-four luches wide trim L: illustrated.

Russian blue, hunter's green, brown, beige and brighter golf red are all correct, and Venetian cloth, tweed, serge and camel's hair are all shown.

The walstcoat and shield are applied over the body lining so that all closes together at the centre back. The skirt is laid in seven deep box pleats, and is attached to the lower edge of the body, also closing at the back, where a placket is finished between the two centre pleats. The little coat is entirely separate, and is slipped on over the body. The backs are seamed at the centre. The fronts hang straight from the shoulders, and finishing the neck is a big sailor collar that is square across the back, but tapers to a point at each front. The coat sleeves are finished with turn-over flare cuffs decorated with braid and buttons.

To cut this suit for a boy of four years of age four yards of material twenty-seven inches wide, three yards



thirty-two inches wide, two and three quarter yards forty-four inches wide, or two yards fifty inches wide, will e required.

