Japanese capitalists have boaght 100,000 acres of land in southern Mexico, upon which they will establish an extensive colony.

According to the statistics of the State Board of Charities more than half of the people of New York city receive free medical attention. In other words, persons who are scrupulous in the matter of paying their own way have to help to pay for those who are able to pay for themselves.

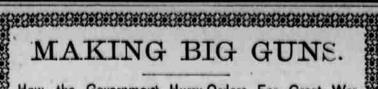
Speaking of Walt Whitman, the London Critic describes him as "the one great American poet." There can be no doubt about Whitman's greatness. But here it may be remarked that Tennyson, though a warm admirer of the "good gray poet," gave Poe the foremost place among our poets.

Dr. Johnson of Brunswick, Cal., himself a colored physician, has collected the figures of the vital statistics of nearly 300 towns in the southern states, which show that the death-rate of colored people is double that of whites in the same country; and not only this, but that the birthrate is smaller among the colored than among the white population.

A theosophist of Washington avers gravely that Joseph Leiter, the Chicago wheat king, is a reincarnation of Joseph, the son of Jacob, and has the same bent of mind that made the latter such a favorite with Pharaoh. He admits that the modern Joseph is not quite up to the level of his previous incarnation, but says he is young yet and should be given a chance to grow.

Word comes from Paris of a curious and successful experiment that a florist there has made. He has managed to give the chrysanthemum the scent of the rose, the sunflower that of the jessamine, the calla lily that of the violet. A rose by any other name may smell as sweet through this experiment, but it is to be hoped that the French florist will not try to improve on nature when it comes to the perfume of the real rose.

"Put it in any way you choose," said a recent speaker, herself a woman, "to the vast majority of mankind home means cookery. A woman's domestic power and influence are in most instances in exact proportion to her ability to cook or to command good cooking. The old phrase 'a notable woman' means, above and beyond everything else, skill in housewifery, and it means this just as much today as it ever did. It is a very democratic standard, for it applies no less to the tenement-house woman than it does to the mistress of a score servants, but it is none the less forcible for that. Like love, housewifery levels all ranks. It is common ground whereon all women, be they high or low, rich or poor, must meet, the only aristocracy that it admits being based upon excellence. An English physician thinks that the example of Sandow, the strong man, is not altogether a desirable one for boys. While he admits that it is a worthy ambition for a bay to become well developed and a strong man, yet when physical culture is carried to the extreme, as by Sandow, it becomes pernicious. He says that two dangers confront Sandow, and they are, first, death at an early period after complete suspension of the athletic strain, and second, death, at middle age, or soon thereafter, from a continuance of his work. When Sandow, it is argued, rests from his muscular exertions he will not be able to bring about a corresponding involution of his heart and lungs. Sandow, while a wonderful athlete, has a dangerous system of muscle-building, and one that should not be imitated. Says the Philadelphia Ledger: "We don't want to fight," but the figures of Adjutant General Brocke's report show that we can if we must. In the five states of New York, New Jersey, Pennsylvania, Maryland and Deleware, forming a very small section of the Union, he finds a total of 2,233,-747 men available for military duty. Comparatively few of these are trained in military tactics, but most of them are familiar with arms and intelligent anough to use them properly without much drilling. In this connection it to well to remember that of the large number of foreigners included in the report by far the greater part received a thorough military drill at home before coming to this country, and are, in reality, traine 1 soldiers. Should they take up arms in defense of their adopted country they would of themselves by a formidable fight-



How the Government Hurry-Orders For Great War Weapons Are Being Executed.

ROUGH CASTS

over the bubbling sea of metal when

brightness, an eye that looks into the

Beginning the Gun.

The gun is under way. Ten tons of netal are faiready in the furnace-a

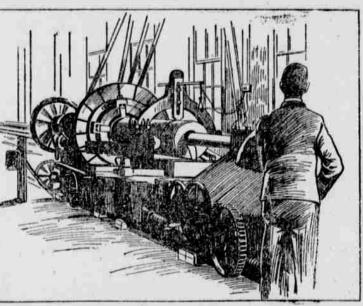
When the doors

Down on the meadows of the Passaic, on the shore of Newark Bay, and within the bounds of the city of Newark itself, says the New York gun-ragged and rusty metal that is carted in wheelbarrows up to the fur-Herald, men are working day and night on guns for the Government. The complex and exquisitely adjusted machines that turn and bore "jackets" and "tubes" never stop, except for a "rest" of an hour or so or the replac-ing of a cutter dulled by hours of slow, steady ploughing through the hardest and finest steel.

Steel is everywhere, in almost shape-less, oblong ingots, fresh from the casting room; in forged lengths, in cylinders, now hearing some resem-blance to a "rapid fire," and in chips and shavings. There are strange and interesting scenes in these gun shops and the pictures presented each hour are dramatic in the extreme. Here in these processes is to be seen the acmo of American manufacturing, the great essential fact being the machinery, that is almost automatic in its work. and the few men needed to control and guide it.

Except in the forging room scarcely a blow of a hammer is heard. The shops are almost as silent as the grave. Wheels revolve, cutters turn, men stand placidly by the side of machines, the doors are open. When the doors are dropped down-that is, shutmoving softly here and there. All this time, each second, the gun that some day will belch forth fire and steel of its own is coming nearer comthere is only revealed a single spot of furnace's flame, and even this cannot be approached too closely with the pletion. Chips fall as the bars renaked eye. volve, but the cutters are not heard. The guns, it would appear to the oulookers, are almost making themselves.

lake of molten, seething metal held in by banks of saud. Other things of Of the sturliest type of American mechanics are the men employed. They are workmen who think and who steel are to be made of this mass, know, men who can judge when a cer-tain instant has arrived, knowing its Atha & Illingworth plant. Whether approach by intuition, rather than used for peace or war, steel is steel,



BORING MACHINE.

men of brawn and muscle. The latter qualities are not so much needed in a gun shop of to-day. Should a partially In shadow is the casting shop, exinished tube or jacket have to be moved there is the electric traveling a flood of light, a wave of extreme erane overhead, that, at the jerk of heat, is thrown out. In the dusk of a cord, swings over its grappling irons, and these need only to be attached. of metal with long bars. The master

just twice the weight it will possess when it is finally turned and bored in-to a "jacket" or a "tube." The boops, the third part of a gun, are cast and forged hollow, not in solid cylinders, as the jacket and tube are. With the carrying away of the rough ingot of steel from the forging shop the second parts of mer making com heat, several thousands of degrees in intensity, stand open to receive it. So overwhelming is this heat that even the master melter has to put on blue glasses to peer into the flames rising the special work of gun-making com-

light.

mences. The boring and turning factory is the scene of the first step in this process. Completed guns, ready for mounting and for fire, are not turned out in these gun shops. The finishing

floor of send, its unrelenting dust and and its dreariness, is made into a brilliant cavern for the moment, and the toiling men are supernatural in the

In the Rough

metal in the moulds must cool. When the sand is finally knocked away the gun that is to be is only a rough mass of cast steel, indicating only to the ex-

pert its fine quality, and not even to him in any degree, for the tests must come to prove that. In the forging shop this mass is hammered and worked

A prosaic time follows, when the

touches, the actual putting together of the parts of the gun, the rifling itself, are done at the ordnance works in Washington. It is the business alone of a gun shop to make the steel and to hand over to the army and the navy the three parts of a great gun-the "tabe," the "jacket" (which is slipped on over the tube and then "shrunk on" by contraction) and the "hoops," two in number, which, for the purpose of strengthening, are fitthe purpose of strengthening, are not ted on tightly over the muzzle end of the tabes. Once these three parts are together the metal becomes, practical-ly, one piece and it would be very nearly impossible, by any art or science known to experts, to get the jacket off.

Finished by the Government. Only the "rough machining," in technical phrase, is done on these guns, this meaning that the final fluish and the rifling is put on by the Govern-ment itself. "Rough machining" cems, however, a strange term, for if delicate work requiring the utmost accuracy and preciseness is not done here it never was anywhere.

A Checkerboard Fish. Joseph Evans, of Thirteenth street and Snyder avenue, is the owner of a very queer looking fish. It is four feet long and has a tail two feet in length, which is spotted and striped, like a snake. Evans caught the fish in an oyster dredger while at work on the oyster boat Mary Colman. It lived nearly a day out of water and caused no end of trouble before it fin-ally collapsed. The skin of the strange inhabitant of the deep resembles a checkerboard, being uniformly colored with black and blue squares. Mr. Evans intends having a glass case made for the pretty creature and will exhibit it in his parlor. Several scientific men, who have seen the fish, are at loss as to how to classify it, and all of them agree that a "what-is-it" fish

would be the proper name for it.-

Water a Cure For Indigestion. "Water a Cure For Indigestion. "We must give special attention to the ontside of the body as well as the inside," writes Mrs. S. T. Rorer on "What to Eat When You Have Indi-gestion," in the Ladies' Home Jour-nal. "The skin must be bathed every morning with tepid water, followed by a brisk rub. This is equally as im-portant as correct diet. A good rule is to use water freely inside and out. At least two quarts of water daily should be taken; half a pint the first



Hints About Hairdressing Modern coiffures are truly "fear-fully and wonderfully made." The hair is either crimped to excess or worn so smooth that it causes discomfort even to look at it. A certain



set of young girls has adopted the most impossible arrangement of the hair, which is made only more grotesque by the fact that the most casual observer can discover that it has been curled on a hot iron. What the foundation of this particular coiffure is, it is not feasible to state, as it looks like a bird's nest and seems to be a succession of waves and curls that

in a cluster. Doubtless by next sea-son the hair will be powdered, and even diamond dust may sparkle in the locks of our fashionables.

Latest Styles in Ribbons.

Latest Styles in Hibbons. Among the latest styles in ribbons are the colored failles and grosgrains, satinback velvet, with either violet or mode backs, and black double faced satins, with raised flowers on one side. Otter, emerald, ruby and tawny brown lead in colors, and are much used for dress and blouse trimmings. Har-lequin blacks and printed fallies are also much in favor. The demand for taffeta is unabated. The favorite shades are cardinal, ox-blood and cherry, and they are a triffe more ex-pensive than other colors. The na-tional blues, violets and greens are also popular tints, and plaid taffeta is appearing. appearing.

Notelties in Dress Fabrics.

Among the novelties in dress fabrics are the new cashmeres wove in two colors. They are beautiful and will make lovely gowns. Silk faced serge is a bandsome material for tailormade seaside and country gowns.

Attractive Suit For a Little Boy.

Navy blue cloth, says May Manton,

made this attractive suit, the broad sailor collar, cuffs and shield being of white serge, decorated with rows of narrow blue braid. The blonse is fitted with shoulder and under-arm fitted with shoulder and inserted in the seams, an elastic being inserted in the hem that finishes the lower edge to adjust it in true sailor style. The adjust it in true sailor style. The fronts are closed invisibly, but buttons and buttonholes can be used if so perforred. The broad sailor collar ends in pointed lapels that are joined stand out about the face, forming any-thing but a becoming frame. The to the cut away neck in front, the

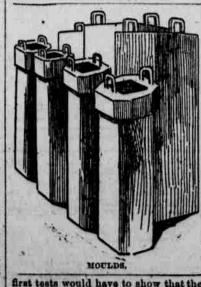


guide and to know.

These works are of the Benjamin Atha & Illingworth Company, one of the three concerns in this country that have the plant and the skill to tarn out guns of size. Their main shops are at Harrison, the next station to Newark, and their casting shops across the Passaic, on the "Island." Dozens of pieces for the navy and for coast defence are being made here.

Work of Great Care.

Six weeks is practically the minimum of time for the making of a modern gun, and to finish one within that space everything would have to go marvellously well. The "treatment" of the steel would have to be a success at the very first attempt-something that does not often happen-and the



The gun man of to-day needs only to melter, never still, steps now and then to his wheels, set at one side of the furnace and looking like the brake

wheels on a freight car, and gives one or the other a sharp twist. By this he regulates his fire—five hundred de-grees at a twist. The silica bricks with which the furnace is lined can stand four thousand degrees of heat and more before they commence to and more [before they commence to melt. The master melter runs up the heat to the extreme point and then lets it down.

There are three "heats" a day in the casting shop. Three times metal is heated, three times it is let go with a mighty rush into the casting pot. The last few moments of each heat are the dramatic instants. It is then, at the judgment of the master melter, that the furnace is fed with "medicine," shovelfuls and blocks of metal being tossed in. On this depends, the qual-

ity, the strength, the elasticity of the steel, essentials of the most vast importance of the gun of to-day.

Into the Casting Pot.

Two hours is usually sufficient for the boiling of this steel in its cradle of sand. At last the one moment arrives. The bar at the furnace's back is worked through the sand to make an opening. An instant, and into the casting pot below the mass runs, scattering millions of sparks, a glowing, golden torrent that foams and hisses

goiden torrent that foams and hisses as it plunges down. The picture of the gun's second stage is suparb. On every hand fly these sparks, and the mass bubbles, and seethes in the casting pot. On its top, through the glow, can be seen a dirty mass—the slag or the soum that is of no use or value. But the picturesqueness of the soune bas not

hese of the solution of the so

thing in the morning and the last at night, a cupful of warm water before each meal, and the remaining quan-tity divided and taken before meals."

Centennial Celebrations.

This year's crop of centennial cele-brations includes observations of the four hundredth anniversaries of Vasco de Gama's discovery of the way to India by way of the Cape of Good Hope, at Lisbon, in May; of the burning of Savonarola at Florence, also in May, and of the birth of Holbein at Basil, in Switzerland, Montpellier will celebrate the hundredth anniversary of the philosopher, Auguste Comte; Ancons that of the poet Leopardi, who was born at Recanati, close by, and Paris that of Michelet, the historian.

Old Bank in! Nebraska.

The building in which the oldest bank in Omaha is located is in a very dilapidated condition. The porches



to the top of the pompadour is literally a foot. Consequently the lines of the head and face are lost and the features dwarfed. Crimping irons are not to be scorned. In fact, they are a most useful accessory of the toilet. But they should be used with judg-ment. Individual styles should be studied. Women with broad faces phould avoid both too narrow and too provid affects. Both ere faith to ishing in a broad, loosely arranged coiffure, with high puffs on the crown of her head, it does not follow that her sister, with the short neck, wide face and high brow will find the same keynote of a graceful conflure, as it is of all other fashions.

Lovelocks, or "beau-catchers," have reappeared, and the smartest women in the East do not consider that the hair is properly coiffed without them. The genuine lovelock is worn just by the ear, where it was placed by the beauties of past centuries. Few wo-men can stand extra breadth at that point, however, and unless they wish to be extreme, they permit a lock or two to turn on the forehead or temple. The lovelocks predict a revolution in the styles for coiffures. They even suggest that women of fashion may alow their hair to be white. Everything points to modes that were fol-lowed in the luxurious days of the French court in Marie Antoinette's reign. The pompadour remains the favorite style for arranging the hair, but great effort is being made to re-establish long and short curls. For evening the bair is worn quite high, and when the signettes, feathers or ribbons are added, the arrangement is quite eight inches tall. The wearing of flowers in the hair is one of the newest fads, and exceedingly dainty are some of the confections the milare some of the contections the init-liners are making up. Honses are the favorite flowere. The prettiest ar-rangement consists of one rose and a few leaves, which are put close against the knot of hair at the left eide, and from this stands up a straight spray of one rose, some small buds and the leaves. Another style is of red roses

measurement from the tip of the chin shield portion being simulated by a facing on the underwaist, which disclosed between the lapels. A pocket is inserted on the left front. The sleeves are gathered top and bot-tom and finished with round enfie at the wrists, neatly trimmed with rows of braid. The knee trousers are shaped by inside and outside seams, small hip darts fitting them closely at the top. The closing is at the sides, where pockets are made, broad effects. Both are fatal to a round face. If the woman with a nar-row, foval face, with a head well poised on a slender throat looks rav-are made in under waistbands, and are made in under waistbands, and placed on the top to attach the trousers to the under waist, or buttons for suspenders can be put on if so pre-ferred. Pretty suits are thus made up in various combinations of materials mode becoming. Individuality is the and colors, black and fed, brown and fawn, or tan with cream being very stylish. The mode is suitable for

wash suits of pique, Galatea, duck, grass linen, or flannel; braid, em-



BOTS' SAILOR BLOUSE SUIT

broidery or insertion all being used to trim suits in this style. The quantity of material 27 inches wide required to make this suit for a

first tests would have to show that the Government standard had been reached. Oftener than otherwise these results can only be obtained through much trying and the expenditure of time. A batch of guns may thus take months in the making, while good luck may here it down to washe

may bring it down to weeks. It is in the casting shop, of course, that the process of gan making has its very beginning, in the furnace where that is made from a medley of pieces of old iron, pig iron lengths, broken