ing been completed, both will be thrown open to the general traffic as agreed. It should be added that the union depot will stand on the western bank adjacent to the elegant suspension bridge now joining together the two halves of Minneapolis, and of which its citizens are so justly proud. It will be arranged so that most of the tracks will run under the streets, instead of crossing at grade, with the exception of those that may still run to the several depots now in use. When these improvements shall have been completed, in the near future, it is doubtful if any other city can boast of finer approaches than these, or that will give strangers, on their arrival, a more favorable impression as to the attractions and commercial importance of the locality.

-----Simple Home Remedies.

The following remedies for many simple ailments we find gratis for every club of five subscribers at \$3.20 each; additional copies at recommended in Hall's Journal of Health. And while the , remedies may not be new to many of our readers, they will be found useful to all. We now publish them that they may be at hand for ready reference.

Half a teaspoonful of common table salt dissolved in a little cold water and drank will instantly relieve " heart burn " or dyspepsia. If taken every morning before breakfast, increasing the quantity gradually to a teaspoonful of salt and a tumbler of water, it will in a few days cure any ordinary will be sent for one year postage free. on receipt of seven dollars. Both case of dyspepsia, if at the same time due attention is paid to The safest way to remit is by draft, postal order, or registered letter. the diet. There is no better remedy than the above for constipation. As a gargle for sore throat it is equal to chlorate of potash and is entirely safe. It may be used as often as desired, and if a little is swallowed each time, it will have a beneficial effect on the throat by cleansing it and allaybeneficial effect on the throat by cleansing it and allay- plate and pages of the four preceding weekly issues of the SCHANTERC ing the irritation. In doses of one to four teaspoonfuls in AMERICAN, with its splendid engravings and valuable information; (2.) half a pint to a pint of tepid water it acts promptly as an emetic, and, in cases of poisoning, is always on hand. It is an excellent remedy for bites and stings of insects. It is a to secure foreign trade may have large, and handsomely displayed anvaluable astringent in hemorrhages, particularly for bleed- nouncements published in this edition at a very moderate cost. ing after the extracting of teeth. It has both cleansing and lation in all commercial places throughout the world. Address MUNN & healing properties, and is therefore a most excellent applica- CO., 261 Broadway, corner of Warren street, New York. tion for superficial ulcerations. Mustard is another valuable : remedy. No family should be without it. Two or three teaspoonfuls of ground mustard stirred into half a pint of water acts as an emetic very promptly, and is milder and easier to take than salt and water. Equal parts of ground mustard and flour or meal made into a paste with warm water and spread on a thin piece of muslin, with another piece of muslin laid over it. forms the indispensable "mustard plaster." It is almost a specific for colic when applied $|\mathbf{A}|$ for a few minutes over the "pit of the stomach." For all internal pains and congestions there is no remedy of such general utility. It acts as a counter-irritant by drawing the blood to the surface; hence in severe cases of croup a small blood to the surface; hence in severe cases of croup a small C_{C}^{O} mustard plaster should be applied to the back of the child's C_{C}^{O} neck. The same treatment will relieve almost any case of headache. A mustard plaster should be moved about over the spot to be acted upon, for if left in one place it is liable $\frac{\mathbf{E}}{\mathbf{F}}$ to blister. A mustard plaster acts as well when at considerable distance from the affected part. An excellent substitute for mustard plasters is what is known as "mustard leaves." They come a dozen in a box, and are about four by five inches. They are perfectly dry, and will keep for a long time. For use it is only necessary to dip one in a dish of L water for a minute and then apply it. Common baking soda is the best of all remedies in cases of scalds and burns. It may be used on the surface of the burned place either dry or wet. When applied promptly, the sense of relief is magical. It seems to withdraw the heat and with it the pain. and the healing process soon commences. It is the best application for eruptions caused by poisonous ivy and other poisonous plants, as also for bites and stings of insects. Ow ing to colds, over-fatigue, anxiety, and various other causes, the urine is often scanty, highly colored, and more or less loaded with phosphates which settle to the bottom of the vessel on cooling. As much soda as can be dipped up with a ten cent piece, dissolved in half a glass of cold water and drank every three hours, will soon remedy the trouble.

A Diamond Mine in Wisconsin.

A dispatch from Milwaukee lately announced that great 11. excitement prevailed at Eagle, a small place in Waukesha County, over the discovery of a rich diamond "find" in that village. It seems that a lady had brought a large bright stone to the city and sold it to a jeweler for \$1, and which

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AMERICA A HUGE "JELLY FISH."

Rear-Admiral Rogers, in a letter read in the U.S. Senate February 28, makes the above comparison. He says we have not a single breech-loading gun in any of our ships nor upon any of our forts, nor can we make one of more than six inches caliber in the country. Therefore, with our 7,000 miles of seacoast, we make a very prominent mark, but would be powerless to strike back if assailed. The letter was brought out by the proposition to build seven new steel cruisers, which has passed the Senate. It provides for one cruiser of 4.500 tons; one of 3.000 tons; a dispatch vessel of 1,500 tons; two heavily armed gunboats of 1,500 tons; one gunboat of 750 tons, and one of 900 tons; a steel ram; a cruising torpedo boat, and two harbor torpedo boats.

The cost of these seven cruisers, with the four ordered in 1882, of which the Chicago is the most prominent, and the completion of the double turreted monitors, will be less than that of two of the first-class iron-clads of England or Italy. While our Government is thus proceeding with such close economy, England, France, and Germany are steadily enlarging their gunmaking and steel shipbuilding facilities. and Krupp is now constructing a gigantic steam hammer, to cost \$2,500,000.

If it were entirely clear in what direction the nation could with the most wisdom proceed for the efficient strengthening of the navy, there can be little doubt but that the public sentiment would not only sanction a much larger expenditure than the completion of these new cruisers calls for, but would earnestly impose upon Congress the duty of prompt action. As it is, however, the cruisers now under way have been so severely criticised as to awaken a feeling of public distrust concerning the advisability of proceeding further in the same way. The vessels now building were said to be only experimental, but the question arises whether the new ones in contemplation are also of the same character, and, if so, whether we need have so many experiments under way at the same time.

VALUE OF INVENTIONS TO THE WORLD.

While the time servers and place-seekers, who now constitute the majority in our national Congress, are seeking in every way to destroy the value of patent rights, and to take away the material incentives to invention afforded by the Constitution and by former statutes, it may be well to call the public attention to a pregnant paragraph written by Lord Racon two hundred and fifty years ago. If it was almost prophetic then, there is no man of intelligence now living who can fail to see how wonderfully the truth of its every word has been realized :

"The introduction of great inventions appears to hold by far the first place among human actions, and it was considered so in former ages; for to the authors of inventions they awarded divine honors, but only heroic honors to those who did good service in the State (such as the founders of cities and empires, legislators, deliverers of their country from long endured misfortunes, quellers of tyrannies, and the like). And certainly, if any one rightly compare the two, he will find that this judgment of antiquity was just, for the benefits of inventions may extend to the whole race of man, but civil benefits only to particular places; the latter, moreover, last not beyond a few ages, the former forever. The reformation of the State in civil matters is seldom brought about without violence and confusion, while inventions carry blessings with them, and confer benefits without causing harm or sorrow to any."

PROGRESS IN EXACTNESS.

Since the introduction of absolute fixed gauges of exact sizes into the machine shop, in place of the universal calipers, there has been a steady improvement in the quality of work, particularly of machine tools. Accompanying this improvement there has unquestionably been another-that of the workman. Both are evidences of progress in the right direction; the use of straight edges, surface plates, solid hardened steel gauges, rings for external and plugs for internal diameter measuring, end measure pieces, and thread gauges demand the practice of exactness on the part of the workman and tend to insure exactness in the result of his work.

But the machine tools themselves have been faulty in the most vital parts. Probably there are very few lathes in use which have perfect leading screws, and if this is so the proportion of planers which have twin elevating screws alike s much less. Reference to this lack of exactness and to its probable remedy was made in these columns (date of December 8, 1883, page 352), but since then the enterprise-advertised in succeeding numbers—has grown by the demands pon it, so that an enlargement to more than double its nitial capacity has to be immediately made, within four nonths of its beginning. The reason is that the closest nathematical calculation is allied with the employment of he most scientific means and the use of the best tools to produce results. Four establishments, representing the nost advanced stages of improved machinist practice in this ountry, have sent in orders for lathe leading screws and planer elevating screws to such an amount as to require a very great enlargement of facilities. This statement shows how needful was the want which is hus supplied; our best machinery was faulty. It has been carcely possible to make a screw of any pitch, coarse or ine, that for twenty-four inches would preserve its integrity pitch; the variations from the true standard being at imes so great as almost to produce a fractional thread,

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turned out to be a rough diamond worth \$800. The dispatch further says that parties have purchased all the land abou Eagle at large figures and are making investigations.

Accepting as true the finding of the diamond, to conclude therefrom the existence of a diamond field is decidedly hazardous; diamonds as well as other precious stones are frequently found in places where a diligent search fails to bring other specimens to light, and we would advise intending "investors" to exercise some caution.

..... Test for Glue.

The following simple and easy test for glue is given in the Tischler Zeitung: A weighed piece of glue (say onethird of an ounce) is suspended in water for twenty-four hours, the temperature of which is not above 50° Fahr. The coloring material sinks, and the glue swells from the absorption of water. The glue is then taken out and weighed; the greater the increase in weight the better the glue. If it then be dried perfectly and weighed again, the weight of the coloring matter can be calculated from the difference between this and the original weight.

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