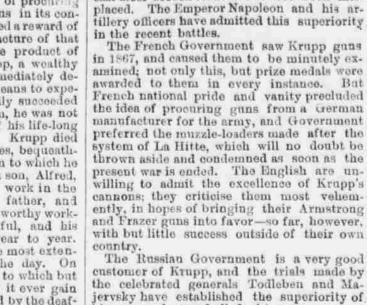
THE DAILY EVENING TELEGRAPH-PHILADELPHIA, THURSDAY, NOVEMBER 10, 1870.

THE KRUPP CANNON.

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Visit to the Krupp Establishment at Essen. A late Leipsic journal, the Unserezeit, contains a description of the celebrated cannon manufactory of Krupp, which is at present of considerable interest:-

At the time England enforced the Continental system, the impossibility of procuring good cast-steel became so serious in its consequences that Napoleon I offered a reward of 1,000,000 frances for the manufacture of that article, if not inferior to the product of Great Britain. Frederick Krapp, a wealthy and enterprising German, immediately devoted his time and pecuniary means to experiments, and although he finally succeeded in solving the technical problem, he was not destined to resp the reward of his life-long task, for Napoleon was dead. Krupp died in 1827 in reduced circumstances, bequeathing to his children the invention to which he had devoted his life. His eldest son, Alfred. only 15 years old, at once set to work in the small forge built up by his father, and assisted at first by only two trustworthy workmen. His efforts were successful, and his establishment developed from year to year. At present he directs one of the most extensive industrial enterprises of the day. On approaching the establishment, to which but few persons not connected with it ever gain admission, one is almost stunned by the deafening noise and din of hammers and machinery, which becomes almost insupportable whenever the colossal hammer "Fritz," of 1000 hundred weight, is at work. The entrance to the place is through a wide gate in the massive building of the door-keeper. Here everybody working in the forge shows a pasteboard card on entering, which is re-turned to him on leaving in the evening. Visitors are conducted to the central office. where they have to apply for permission to see the various works; if properly recom-mended this may be obtained, excepting always the buildings in which the manufacture of cast-steel is going on, the admittance to which is strictly prohibited to any one not connected with them. When the idea of constructing the enormous hammer "Fritz" was first conceived in 1859, it became known to machinists not connected with the establishment, and was generally ridiculed. The construction of such a tremendous engine was held to be an impossibility; and even if completed it was argued that it would be beyond all human skill to bring it into motion; finally it was said the hammer would destroy itself and everything around it when set to work. Krupp, however, went to work without delay, although he did not undervalue the enormous difficulties to be encountered, and in time succeeded. The hammer, although only one piece, consists of two substances. The lower part of the form was filled with smelted caststeel, upon which, before it became cold, cast-iron was poured, the lower part of which mixed homogeneously with the surface of the cast-steel, thus forming one solid mass. When a block of steel of 74,000 pounds is sufficiently heated to be ready for the ham-mer, the immense mass of metal is removed from the furnace on a solid iron wagon on rails; almost imperceptibly the heavy chains connected with the steamcrane encircle it, and in a few seconds the lump is lifted and deposited on the anvil. The heat emanating from this mass of metal is such that one cannot stand within twentyfive yards; the workmen, however, protect



his cannon be yond all doubt. TRUE FLIRTS AND FALSE.-The Home Journal thus defends flirting-quite successfully, provided its definition is accepted. Some would say that the writer's "true" flirting is

4,000,000 thalers. Of these 95 per cent. are

breech-loaders, varying in calibre from 4 to

to 300 pounds, while a few of them will have

a calibre of 600 and even 1000 pounds. The

Prussian Government has always made the

most extensive purchases of Krupp's guns,

and the superiority of their artillery is the

best proof that the confidence placed in his

cast-steel breech-loaders has not been mis-

misnamed:-When a clown follows the will-o'-the-wisp to his discomfiture, we blame the foolish man, and not the misguiding light. And so, if men will be so vain and unthinking as to imagine that every pleasant beauty adores them because she does not snub them, and designs to marry them because she vouchsafes to chat, whose fault is it when the presumptuous lover is informed with cold politeness that his position is that of a friend only? The real mistake consists in conceiving nothing between the sexes but People rush into the error love. that a woman must either be discourteous to a man or in love with him; the possibility of her entertaining a proper and healthy friendship for fifty of the opposite sex never seems to strike the world. Now the so-called flirt is eminently free from all the charges that are usually alleged against her. She is open and undisguised. Her affability is known and commented on from the fact that she converses without hesitation, laughs without constraint; she "wears her heart upon her sleeve;" there is no concealment, no attempt at reservation, no affectation of reserve. The really designing woman is of another cast. Her plots are darkly laid and darkly carried out. Her demeanor staid, her style irreproachable.

"She gives a side glance and looks down." She encourages, not with the open invitation of an assault, but with the covert affectation of a retreat. She leads on quietly, but without appearing to do so, and the world is kept in ignorance of her plans till her discretion is rewarded and a prize secured. So anglers catch fish—quietly, concealed, cautiously. But he who chatters on the bank, flaunts his rod and line, and flutters his brilliant hues, fails if he thinks to net.

GIVING ADVICE, -The Saturday Review



themselves, and are enabled to stand nearer. Now the work of the Cyclop commences, and as he descends with his tremendous weight on the mass of metal below, a myriad of sparks spread in all directions. The construction of this hammer has cost 720,000 thalers, although every part of it was manufactured within the forge; it is worked almost uninterruptedly day and night, that it may the better earn the interest on the capital invested in it.

This establishment is not devoted to warlike material solely. All sorts of railroad material of the heavier kind is produced in enormous quantities. A quantity of axle-trees were before the war sold to a French railroad company, and after travelling a distance of 169,400 English miles, not one of them was found to be in the least damaged. Even England, the country of cast-steel, sends orders for them. In the year 1865 the export to England, the Colonies, and to the United States amounted to 564 axle-trees and 11,396 wheel-bandages.

The construction of iron-clads in England, the United States, and France and the other maritime countries, necessarily led to the demand for more powerful weapons of attack; the most experienced artillerists and manufacturers of armament devised means and plans for the construction of cannon. Rifled cannon, superseding the old ones of smooth bore, were first brought into extensive use during the civil war in the United States, while the first breech-loaders were manufactured by Krupp, Whitworth, and Armstrong. Cast-steel was at first used in the construction of light field-pieces only, until it was found to be fit for the manufacture of guns of the heaviest calibre, the danger of their explosion being obviated by giving greater strength of metal to the breech-end of the cannon, and by encircling the same with several bands of cast-steel of different degrees of strength. In one of the buildings is seen the 1000-pounder gun which created such a sensation at the exhibition in Paris in 1867. It was thought the Prussian Government would order it to be shipped to the coast of either the German or the Baltic Sea, to be used for coast-defense; but these anticipations have not been realized, and as the French fleet has already withdrawn from those waters, perhaps the gun may be brought into use during the siege of Paris. The gun was intended for coast defense, and it was calculated that its projectile would pierce the heaviest plated iron-clad in existence. It has one great advantage over the heavy columbiads of Rodman in the greater facility of pointing it in any direction, owing to the ease with which it moves on the gun-carriage. The cannon proper, one of the finest pieces of steel which could possibly be made, weighed 85,000 pounds before it was bored, after that process only 40,000, showing the enormous loss in material of 45,000 pounds. The cast-steel bands which encircle the cannon weigh 60,000 pounds, the inner side has 40 spiral grooves, which represent a length of 1014 inches; the massive or solid projectile weighs 1100 pounds, while the cast-steel grenade does not exceed 1000 pounds. The charge of powder ranges from 100 to 120 pounds for each shot; the cost of the gun, gun-carriage, and the other appurtenances amount to 145,000 thalers. The other smaller guns exhibited by Krupp in 1867 have attracted a decidedly greater attention than the one above described, and he has obtained a prize medal for every one of the designs invented by him. The number of cannons of all descriptions manufactured by Krapp reaches 3500, of an aggregate value of 7,000,-000 thalers. He has now on hand orders for 2200 gans for several Europeau and other governments, representing a value of over

closes an essay on "Good Advice" as follows:-

If a man really wishes to give such advice as may do some good to other people, he must take the consequences of his eccentric taste. He will have few consolations except those which result from a good conscience, or from the less worthy gratification of his own self-esteem. We can only make one suggestion for his guidance if he persists in committing himself to so rash a course of conduct. He should remember above all things the Johnsonese aphorism, that though you can provide a man with arguments, you cannot provide him with reasoning powers. You may do him some good by completing or correcting his information, but it is very unlikely that you will materially alter the way in which he reasons upon facts already known. Now as most people who ask for advice with any serious expectation of taking it must of necessity be foolish, and as a foolish person is just as likely to go wrong when his infor-mation is sound as when it is erroneous, it follows that the sphere open to the adviser is remarkably limited. One may succeed in keeping a man straight by making him feel that he is ridiculous, or by encouraging him in moments of depression; but the administration of downright good advice, the unqualified remark, Do this, or Don't do that, is about as profitless an expenditure of human

energy as can easily be devised. MATS AND CAPS. WARBURTON'S IMPROVED VENTILATED WARBURTON'S IMPROVED VENTILATED and easy-fitting DRESS HATS (patented), in all the improved fashions of the season. CHESNUT Street, next door to the Post Office. rp5 CENT.'S FURNISHING GOODS. DATENT SHOULDER-SEAM SHIRT MANUFACTORY, AND GENTLEMEN'S FURNISHING STORE.

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