steel trusses, which extend from pier to pier. A steel same time an antiseptic and an analgesic. frame is carried up several hundred feet in the air, even wind bracing is provided for.

new engineering problems constantly arise, and the nevertheless as quickly as antipyrine. fully equipped architect is no longer the product of an. The success of antipyrine has evoked a series of exapprenticeship at the drawing-board—he must be a ca- periments with the object either of preparing substi- phonated and sulphureted derivates of organic and pable engineer.

A DECISION RELATING TO ASSIGNMENTS.

in the Patent Office is prima facie evidence of the genuineness of the instrument; but the Court of Ap- have been proposed likewise as antiseptics. peals now reverses this doctrine and holds than an provision requiring an assignment to be recorded in stead of operating with aniline, we start from hydroxy- Le Genie Civil. the Patent Office. Section 4898 of the Revised Statutes, lated aniline, that is to say, from a product which is permits this to be done for the protection of the as-both phenol and amine, and etherify it before acetysignee against a subsequent bona fide purchaser or lation, we shall have phenacetine or phenedine. mortgagee. The section does not make the recorded ment to be executed in the presence of any public officiple which gives to such a record the effect of primary we shall find among the antiseptics. evidence or of prima facie proof of the execution or Asaprol has the same action as salicylate of soda. missed.

Heretofore, as above noted, it has been the practice simply to record an assignment in the Patent Office, the most frequently employed hypnotics is chloral, the document being simply signed by the owner of the which is the hydrate of trichlorated acetaldehyde. patent and attested by one witness.

executed before a notary public in the same manner nal, which is obtained from chloral and urethane. that deeds and conveyances of real estate and other properties are certified.

Medicaments Derived from Coal Tar.

As a consequence of the progress made in the manufacture of coloring materials from coal tar, physiologists and physicians have been able to experiment with a host of new products, some of which have found a place as therapeutic or antiseptic agents. The substances submitted to such experiments are of very diverse phenyl-amine; resorcinol, which is a combination of one 8 inch standard breech-loading rifle, two 6 inch nature, but there is observed in them, nevertheless, a iodoform and resorcine; and lysophane, which is rapid-fire rifles, and eight 4 inch rapid-fire rifles. The limited number of characteristic groupings. They are chemically called triiodo-meta-cresol. phenols, acetylated amines and sulphonated, sulphureted, iodated and chlorated derivatives of the alde-designed for the same use. hydes. Methodical experiments have not been numerous enough and the data furnished by biological chem-series, is diethylene diamine. One of the processes of nition is used, the powder and shot being combined in istry are not precise enough to allow us to establish any preparing it consists in causing ammonia to act upon an immense cartridge, standing nearly 6 feet high. n between the constitution of these bodies and their physiological properties, provided any exists. Their applications, in fact, exhibit many anomalies. We see products that are very different as to constitution act upon the organism in a similar manner, and substances that are analogous, from a chemical point functions, and halogenated derivates. of view, produce very different therapeutical effects With the information that we possess upon this subject it is hazardous to draw absolute conclusions.

The number of organic bodies proposed as antiseptics ance every day. We can mention but a limited number of benzoic acid with naphthol gives benzo-naphthol. here, in selecting the most important of them.

and analgesics, and hypnotics and antiseptics. There | phuric ether of beta-naphthol. It is a microbicide at is nothing absolute about this classification. A large present proposed for the preservation of wine. number of these products has at the same time several of these properties. For example, chloral, which we may mention alumnol, sozal, daphtherine, phenoline, Campania on a voyage across the Atlantic, the may place among the hypnotics, is an analgesic, and is cresine and microcidine. lodoform is triindated me-ships would be left far astern.

steel roofing trusses and beams are put in place, and antithermics, antipyrine or analgesine is the most stitute odorless and likewise iodated substances for it. the skeleton of the structure is complete. The process | widely used up to the present. It is derived from Among the bodies proposed to this effect we may menis comparable to the framing of a wooden house. The phenyl-hydrazine, which is itself obtained by dinitration divodoacetylene or divodoform. In order to prebuilding is closed in with walls of brick and stone, but ing aniline and in reducing the dinitro-benzol thus obthese represent only its sheathing. The building detained. This phenyl-hydrazine is afterward condensed aqueous solution of acetylene, or water upon a mixture pends for integrity on its steel skeleton. In its frame | with aceto-acetic acid, and then, finally, the product is | of iodine and carbide of barium, or else by treating submitted to a methylation. We have at last the acetylene with iodine in the presence of an excess of It may be that a partition is required on a lower dimethyl phenyl-pyrazolon that constitutes antipyrine. potassa at a low temperature. story, on the floor above which it is desirable that there It is very soluble in water, and this property permits | should be an unbroken or undivided space. The en- of administering it under the most varied forms—a other iodated derivatives are: Traumatol (iodo-cresygineer provides for this by including within the inter- quality that is highly appreciated in pharmacy. It lol), aristol (iodo-thymal), iodol (tetraiodo-pyrol) and mediate wall of the lower floor a truss, precisely such must be observed, however, that, as a general thing, sozoiodol (diiodo-paraphenate of sodium). $as \ would be used in \ bridge \ work. \ It is so throughout, \ solubility \ has \ no \ relation \ whatever \ with \ the \ quickness$ The modern office building is only possible because of of action and assimilation of a medicament. Phenace-tiseptic, is form-aldehyde. It has the great advantage the engineer. In its roofing, flooring, and foundation, tine, while being but slightly soluble in water, acts of being volatile, and, consequently, of penetrating to

tute antipyrines and of analogous pyrazolons, or of mineral oils employed in this state and that serve as solassociating it chemically with other substances. In the first order of ideas has been produced tolypyrine, A decision of considerable importance to all persons which is a paramethylated antipyrine in the phenylic who hold property in letters patent by assignment has nucleus, and then chlorated, bromated, etc., antipyrecently been made by the United States Court of rines. In the second series antipyrine has been asso-Appeals. This is the case of the American Cable Rail- ciated with salicylic acid, and this has given salipyrine. and, on the other, the natural alkaloids are the object way Company vs. the Mayor of New York City. Here- Tolysal is the salicylic combination corresponding to of numerous studies. With the means now at the disto fore it has been assumed, and in fact decided, by the tolypyrine. Apropos of hypnotics, we may mention posal of chemistry, it is possible to study the active

Thalline and kairine are quinoleic products that

Among the oldest analgesics and antithermics, we

Thymatecine is the phenedine of thymol, and exal-

abrastol it has been used as a microbicide.

2. Hypnotics and Various Medicaments.—One of

An endeavor has been made to associate it with vari-In view of the foregoing decision, it will be well for our organic substances. In this way have been pre- 412 feet long, beam 58 feet, mean draught 22 feet 65 those who are interested in patent property to take the pared: Chloralose, which is a combination of chloral inches, displacement 7,350 tons, indicated horse power precaution of having their assignments more fully au- and glucose; hypnal, which is due to the union of one 21,000. The hull is steel and has a double bottom, thenticated and verified. Such documents should be molecule of antipyrine and one of chloral; and som- with considerable space between the two skins, this

> but its constitution has no relation with that of chloral. all, a commerce destroyer, and is not intended to fight, Chemically, it is called the diethyl-sulphone of dimethyl-methane. It is formed by the combination of steel and her protective deck is a variety of turtleback, acetone with ethyl-mercaptan. Trional and tetronal and is 4 inches thick on the sloping portion. The gun form part of the same series.

> For skin diseases there have been proposed dermatol, which is the subgallate of bismuth; sulphaminol, Patent fuel will be stowed to a thickness of 5 feet obtained by the action of sulphur upon meta-oxidi

Tumenol, thioline and sulphonated thiophene are

bromide of ethylene.

hydrochlorate of phenyl-dihydro-quinazoline.

find, especially, bodies with phenolic and aldehydic It is true the contractors have managed to squeeze a

Phenol, beta-naphthol and gaiacol are characterized the benzolic or naphthalic nucleus.

The use of a large number of phenolic derivates has or as medicinal products is very large, and one or more been recommended. Thus, salol is salicylate of phenol, | Bismarck, Columbia, Normannia, which make from 20 new medicaments are observed to make their appear- and betol is the salicylate of beta-naphthol. The union up to 21½ knots per hour on almost every voyage?

Abrastol, of which we have above spoken under the We have arranged these substances as antithermics name of asaprol, is the salt of calcium of the sul-able after being put into actual service to hold any-

Among the phenolic products of less importance, we

building is supported, its weight being distributed by even employed as an antiseptic, and asaprol is at the thane, analogous to chloroform as regards constitution. This antiseptic has, as well known, an insupportable 1. Antithermics and Analgesics.—Of all the artificial odor. An endeavor has, therefore, been made to sub-

There likewise exists a tetraiodo-acetylene. The

Formol, which has recently been proposed as an anthe very interior of the objects to be disinfected.

Ichthyol, anytine, thiol and thiolinic acid are sulvents for products insoluble or but slightly soluble.

Among the substances mentioned, a small number only will doubtless receive the sanction of practice, but the road is laid out. On the one hand, syntheses are multiplying with the object of finding new series, State courts that the simple recording of an assignment hypnal, which is a derivative of antipyrine and chloral. principles of digitalis, belladonna and a host of other natural products. We shall certainly succeed in giving such alkaloids a greater energy, perhaps new properties, and even replace them by substances of which the assignment of a patent is not a public document, but | find acetanilide and antifebrine, which are prepared | syntheses will be only the results of a study of the prois simply a private writing, and there is no statutory by treating aniline with anhydrous acetic acid. If, in ducts, of their reduction and of their decomposition.—

Trial of the New Warship Minneapolis.

When the Minneapolis returned from sea to Philadelphia June 7, she carried a broom on the foretopmast instrument evidence, and does not require the assign- | gine is derived from the acetylation of methyl-aniline. and on one of the funnels was painted the figures 21.75, Salicylate of soda has been for some time employed which showed that the vessel is a record breaker. The cer, or to be acknowledged or authenticated in any as an antirheumatic. Salicylic acid is a carboxylated speed of 21.75 knots per hour was made in an off-shore way before being recorded, and does not provide nor phenol, that is to say, a body that is at once phenol run under forced draught in comparatively shallow contemplate that it shall remain subsequently in the and benzoic acid. It is prepared by passing a current | water, burning anthracite coal. At the above speed custody of the Patent Office. It devolves upon the of carbonic acid over phenate of soda at a high tem- her shafts made 138 revolutions per minute, steam pres-Patent Office merely the clerical duty of recording any perature. Several applications have been found for sure 160 pounds. Streams of water were kept running instrument which purports to be the assignment of a its derivatives, among which may be mentioned sali- over the bearings, but this was an unnecessary prepatent. "We are aware," says the court, "of no prin- pyrine, that we have spoken of above, and salol, which caution, for none of the machinery became unduly heated. The Columbia, on her preliminary trial trip, made only 20.98 knots, so that the Minneapolis has the genuineness of the original document. To give it It is obtained by treating beta-naphthol with sul- proved herself to be the speedier vessel. Mr. Cramp such effect would enable parties to manufacture evi-phuric acid at a low temperature. It is the sulphuric said: "I am perfectly satisfied with the showing made mence for themselves." The decree of the lower court ether of beta-naphthol. It is offered in the state of to-day by the Minneapolis, and I expect her to do a was reversed and the complainant's bill was dis-calcium salt very soluble in water. Under the name of knot and a quarter better under the same conditions as the Columbia."

The Minneapolis, a sister ship of the commerce destroyer Columbia, was launched August 12, 1893, at Philadelphia, in the yard of Wm. Cramp & Son's Ship and Engine Building Company. The new vessel is space being divided by numerous bulkheads into Sulphonal is likewise a very efficacious hypnotic, watertight compartments. The Minneapolis is, before so she is not armored. Her conning tower is of mild shields are two inches thick, or only sufficient to protect the gun crews from the fire of machine guns. around the machinery. The armament consists of secondary battery is composed of twelve 6 pounders, four 1 pounders, and four Gatling guns. The vessel is provided with five torpedo launching tubes. The 6 Piperazine, a nitrated product of the closed chain inch guns are loaded at one operation, as fixed ammu-

The brag that the two new ships above mentioned Orexine serves to stimulate the appetite. It is a are commerce destroyers, able to overtake any other ship afloat, remains yet to be verified. We hope the 3. Antiseptics.—Among the organic antiseptics, we government will subject the vessels to actual trial. gratifying rate of speed out of them for a short time, everything being prepared and strained to the utmost. by the phenolic grouping OH directly connected with But how will it be on a sea voyage? Can these new vessels equal such merchant ships as the Campania, Lucania, Paris, New York, Majestic, Teutonic, The experience thus far had with our most highly praised government ships is that they have never been thing like their trial trip speeds. We venture to say that were the Columbia or the Minneapolis ordered to keep company with such boats as the Paris or the