Correspondence.

Frozen Soap Bubbles.

To the Editor of the SCIENTIFIC AMERICAN:

Having noticed your item about soap bubbles in your last issue, I will cite a curious thing that happened here last winter when the thermometer stood about 14 degrees below zero Fah. One of my children, a little boy, was "blowing soap bubbles," and suggested that he try what the cold weather would do to them. I consented, and, after blowing one, sent it adrift in the usual way, when it froze instantly and fell on to the snow a frozenhollow sphere of ice. It was tried several times with the same result. A curious fact, also, was brought out, that when the thermometer rose to 0°, no frozen spheres could be made, whether from change of temperature or change of air I could not ascertain. I would like to know if this can be accomplished at a lower altitude, where the air is not so dry as it is here. WILLIAM PIM.

Denver, Col.

Curious Electric Discharge.

To the Editor of the SCIENTIFIC AMERICAN:

I am making asphalt pipe. The process is as follows: Crude asphaltum and gravel, equal parts by measure, are each heated in separate kettles to 400° F., then both are mixed together and filled into sheet iron moulds. The space between the moulds is maintained held to that ring by inside and outside wrought iron rings. After the moulds are cooled off, which takes time according to the size of the pipe, from two to wrought iron rings have been removed and the moulds moulds spring off there can at times be seen large sparks between the sheet iron and the pipe. By having my hands on the pipe and the moulds I received decided by Mr. Justice Stirling that the tableaux were of copyright, whether photographic or otherwise.gether. Men working for me have experienced the same.

The object of this letter is to find out if you or any why it discharges just at the moment the moulds are taken off. GUS. SCHADE.

Anaheim, Cal.

[The description suggests that a condenser is formed by the combination, which is discharged on opening the mould. Whence the charge is derived is not clear.—ED.]

The Timber Boom.

Both in a saving of time and timber, the "boom" is in expense in caring for the logs is considerable. A lumberman's description of a boom is as follows:

floating pen, in which the logs are corraled as they drift down stream. It may extend along the banks of the creek or river for one, two, three or even five miles, | Stirling reserved judgment in the suit. and is divided into pockets or sections of whatever length may suit the conditions under which the boom high and flowing fast."

who, with pike poles, pull in the logs as they float by. fringement within the Copyright Act. The work is sometimes fast and furious, as when logs caught eighty thousand logs.—New York Evening Post.

British Copyright Decisions.

court for several days, were concluded recently. The pictures in the Westminster Budget were better than suit has become known as the "Living Pictures" case. The case, taken by itself, is of little immediate the Copyright Act. interest to photographers, but there are other cases in connection with it that are of importance to all holders that, in the case of the Daily Graphic, he had thought of copyright.

time last year the Empire Theater of Varieties pro-copies, or imitations, if you please, still he thought duced a series of tableaux, "Pictures of Living Masters, they were copies; but the Court of Appeal and the Realized," and among the number were several popul House of Lords thought otherwise. After reading lar ones, in which Herr Franz Hanfstaengl, the well- from the judgments delivered by Lord Lindley and known publisher of Munich, London, and New York, the load chancellor respectively, the learned judge holds the copyright. Soon after their exhibition, that said it became his duty to apply in his court the gentleman, the plaintiff in the several actions, institut-iprinciples that were applied in the Court of Appeal ed an action for an injunction to restrain the exhibi- and in the House of Lords in the case before him, and, tion of his works in that way, and claimed penalties in the result, he gave a verdict for the defendants, and damages for the infringement of his copyright. with costs. He, however, stayed execution pending a During the arguments, at that time, the case of Turquestion of appeal, and so the matter rests. ner v. Robinson was freely quoted, and it has consider- From the above judgments it would appear to the control of the c higher court.

sometimes such heavy shocks as to draw my arms to- not an infringement of the plaintiff's copyright, in so British Journal. far as the models were concerned, inasmuch as the Copyright Act of 1864 enacts that the pirated works should be forfeited to the owner of the copyright, and,

greater direct interest to photographers, particularly lighted by electricity on the double-wire system, generis constructed. At the head of each pocket there is an now that they are beginning to stand up for their ated by two compound-wound self regulating dynamos opening, and extending obliquely across the river, from rights against the illustrated press, and indeed to the situated in the engine room. At each of the seven the head of each pocket to the opposite shore, is what is holders of copyright generally. When the Empire hatches there is a cluster of 16 lamps of 16 candle known as the 'sheer,' a floating line of logs chained first produced the "living pictures," the Daily Graphic power. The two sets of triple expansion engines have together, that serves to swerve the saw log from its and the Westminster Budget reproduced some of the cylinders 221/2 in., 361/2 in., and 60 in. in diameter by 48 course in midstream at such an angle that it will go tableaux, whereupon Herr Hanfstaengl proceeded in stroke, and two large double-ended boilers fitted directly toward the opening in the pocket of the boom against both papers for infringement of copyright with Howden's forced draught. There is a large on the other side of the river. These sheers extend from seeking an injunction. The case against the Daily auxiliary boiler for winches, electric lights, etc. The every opening in the boom. It will be seen, then, that Graphic was dealt with some time ago, when Mr. propellers have bronze blades, and the shafting is of the boom, when rigged out for business, becomes a Justice Stirling decided in favor of the plaintiff, as Vicker's steel. The vessel was tried both on the measseries of funnels and pens with which to catch and might have been surmised from the ruling in the Chat, ured mile and between the lights, and proved in every hold the logs, but it requires a good deal of expert terton case just referred to. Against this judgment way satisfactory—a speed of 15% knots being obtained manipulation to 'save the crop' when the tide is run- the defendants took the case to the Court of Appeal, between the lights. and that court reversed the judgment of the court Cheaper as the boom system is than the rafting, the below. Then the plaintiff appealed to the House of cost seems a big item when put into figures. The con- Lords, and here the ruling of the Court of Appeal was struction of pockets, etc., for a two and one-half mile affirmed. Their lordships said that, looking at the boom, in Breathitt County, for instance, came to eight variations between the originals and the rough thousand dollars recently. Near the pocket ends of sketches, the latter were not, in fact, copies, reproducthe shears and at the openings in the booms, platforms; tions, or colorable imitations of the original pictures are built on which the "sorters" are stationed, men or the design thereof, and did not constitute an in a representative high grade safety of the most ad-

are going by at the rate of from fifty to ninety a similar to that of the Daily Graphic, except that the embodying the two leading points of 1895 construction. minute. Sometimes the men are obliged to work for sketches were more complete and elaborate in the It is constructed by William Read & Sons, 107 Washtwo or three days and nights at a time, only the ex- details, and was, for convenience, proceeded with ington Street. Boston, Mass. The adjustable handle citement of the work sustaining them. Their food simultaneously with that of the Empire. Two R. A.'s, bars and detachable sprocket of original design are during such an ordeal is taken by "jerks and snatches," Mr. Alma Tadema and Mr. Marcus Stone, who were other characteristic features. The seat rod is also new and lucky is the "sorter" who is excused for a cat nap. ; also witnesses in the Empire suit, testified that the in plan and is found to be an acceptable improvement. At night the river is lighted by basket torches, and for cuts were decidedly copies of the plaintiff's pictures. The wheels have wooden rims, and for tire on the reguwarmth fires are lighted on beds of sand which have and the design thereof. One of the witnesses, after he lar mounts an endless inner tube tire has been chosen, been laid on the platforms. During a recent big run had been shown one of the cuts in the Daily Graphic one which gave great satisfaction in 1894. and which, at Beattyville, on the Kentucky River, one firm alone and expressed his opinion upon it, was asked by the as improved for the present year, should give still counsel for the defense if he would be surprised to greater. The lady's wheel, with loop frame, is made learn that the House of Lords had decided that these of identical standard with the man's wheel.

crude cuts were not infringements, created some The arguments in a suit that has been before the amusement by replying to the effect that he should Law Courts, and has attracted a good deal of atten- not be at all surprised at any decision of the House of tion, for the last year and more, after occupying the Lords on questions of art. It was contended that the those in the Daily Graphic, and that they came within

In delivering judgment, Mr. Justice Stirling said that the sketches were copies or colorable imitations It will be remembered that somewhere about this of the pictures of the plaintiff. They might be bad

From the above judgments it would appear that if, able interest in connection with the two other suits to as in the case of the two journals proceeded against, be referred to presently. That case was this. The the cuts are crude or badly done, there is no infringeplaintiff, Turner, was the holder of a copyright of a ment of copyright. Indeed, on the judge remarking painting, the Death of Chatterton. The defendant, a that the faces were entirely different in the two picphotographer, after seeing the picture, arranged in his tures, and that it was for that reason, among others, studio a garret scene like that depicted in the paint, that the lord chancellor had pronounced the Daily ing, and introduced a living model in the same pose as Graphic reproductions to be no infringement, Mr. by a cast iron ring on the bottom and the moulds are the Chatterton in the picture. He then took photo- Moulton, Q.C., for the plaintiff, then asked if it was graphs of it, which he afterward published. Pro-contended that you cannot infringe copyright unless ceedings were taken for an infringement of copyright, you are a good artist? His lordship replied that he and it was decided that the photographs, though had no occasion to lay down any proposition of that eight hours, they spring off from the pipe after the taken from solid accessories and a living model, were sort. He was content to take his stand with the words an infringement of the copyright in the original pic- of the highest authority which was provided for his tapped with a hammer. Just at the moment the ture, and that judgment was upheld on appeal to a guidance. The decisions in the two cases referred to clearly tend to render the present Copyright Act still In the Empire case, now to be referred to, it was more unsatisfactory than it was before to the owners

A New Cunard Cattle Steamer.

The trial trip of the latest addition to the Cunard of your readers can explain how this electricity, for of course, this could not be done with the living fleet, the twin-screw steamer Sylvania, recently took such is what I judge it to be, accumulated there, and models, though, in the case of the backgrounds, it place in the Firth of Clyde. Built by the London and might be different, as the act distinctly mentions. Glasgow Engineering and Iron Shipbuilding Company, piracy of the picture, or "any part thereof." He re-Limited, Govan, the Sylvania is to be engaged in the fused the injunction applied for, on the defendant's cattle and cargo trade between Liverpool, New York, giving an undertaking to keep an account of the num- i and Boston. Although a cargo steamer, the vessel has ber of times the backgrounds were used and the rather a fine appearance. The Sylvania is 460 ft. long amount of money received at the doors of the theater; over all, 49 ft. beam, 42 ft. 6 in. deep from shelter deck, where they were until the trial of the action. The and carries 6,500 tons dead weight. The vessel being backgrounds, it may be mentioned, were soon substi- twin screw, the framing of the after end is carried out tuted by others. Against the judgment of Mr. Justice to meet the stern tubes, and ends in a massive steel Stirling the plaintiff appealed, but the Court of Appeal casting on each side built into the hull. There are a vast improvement over the raft. In the first place, upheld the judgment of the court below. The argu. nine watertight bulkheads extending to the upper there is no boring of logs and afterward fastening them ments in the trial of action were concluded recently deck, and these are fitted with watertight doors on each together, as in the rafting method, and thousands of and among the witnesses called were some Royal side in the 'tween decks for the handy working of catfeet of fine timber are thus saved. Then the reduction Academicians, who testified that the backgrounds tle or cargo. In all there are 24 compartments for were a very important part of the pictures. The water ballast, and part of the double bottom under artist who painted the Empire backgrounds was also engines may be utilized for carrying reserve fresh "In simple language, a boom is nothing more than a called, who stated that he was supplied with the water for cattle or boiler use. The bulkheads are so plaintiff's photographs to work from, and he copied arranged that any two compartments, and in some them as near as he could. In the end, Mr. Justice cases more, may be bilged and the vessel still keep afloat. The entire vessel, including all the holds, Arising out of this case were two others that are of 'tween decks, engine and boiler spaces, and cabins, is

The New Mail Bicycle.

The New Mail bicycle is an honored name. It extends back to the days of the "good old ordinary," as the high wheel of early days came to be affectionately termed by its old-time devotees. Now that the high wheel is extinct, the name continues and is applied to vanced lines of construction. It is a twenty-three The suit against the Westminster Budget was very pound wheel, with high frame and large tubing, thus