## Scientific American.

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NEW YORK, DECEMBER 10, 1853.

Sewing Machine Troubles.

The loud notes of an approaching conflict between Walter Hunt, of this city, and the owners of several patents on "sewing machines," after having been sounded for a number of months in the shape of advertisements through our daily papers, are now heard reechoing from the halls of the Patent Office .-As stated in his card published by us on page 21, Hunt has applied for a patent and an interference has been declared by the Commissioner, between him and fifteen others, eight of whom have obtained patents on sewing machines, in order to arrive at some definite conclusion respecting the following points, namely, "who is the inventor of the eye-pointed needle, and who is entitled to a patent for it; also who is the inventor and entitled to the patent for sewing seams with a lock stitch formed with two threads, by a shuttle and a needle."

The eye-pointed needle, we believe, is public property. Who invented it we cannot tell, but it has been in public use-unclaimed, for at least seven years. It is not distinctly embraced-as a device-in the claim of any patent yet granted. E. Howe, Jr., obtained a patent on a sewing machine in 1846, in which the manner of forming seams by shuttle and needle is claimed as a combination, but not the eye pointed needle as a specific device. As this needle has not been claimed in anypatent as a distinct device, it is certainly public property by the general equity principle of abandonment. A case bearing on this very point was decided by Judge Kane, of Philadelphia, Sept. 10, 1851; it was Battin vs. Taggart, respecting the use of a Coal Breaker. His opinion was as follows.

"Neither section 13, Act 1836, nor section 7, should be drawn between that which is public Five patents were granted for improvements 1837, authorizes a change in the character of weeks more we shall distribute between four property and that which is not. Viewing the in fences-cast-iron and wire fences; the one the claim-the substitution of a different patentand five hundred dollars in prizes to the sewing machine controversey" in the light of illustrated on page 233, Vol. 7, "Sci. Am." is able subject. Were the law otherwise, it would lucky parties, whoever they may be, that have reason, justice, and sound policy, and after a favorably alluded to. be a perilous thing to admit of improvements inobtained the largest lists of subscribers to the faithful, and as we believe an impartial exami-Five patents were granted for various modito the machinery and processes of our workshops. "Scientific American." There will be some nation of legal claims, it is our opinion that the fications in shinglemachines, the main object of then that will be sorry they did not try a There would be no knowing what was patented great disturber of the peace-the eye pointed all, and a good one, being to make the shingles and what was public; an inventor would only little harder, and thus secure one hundred dolneedle-is public property. equal to those formerly made by riving and the have to amplify his description, and illustrate it lars for their own use and profit. hand shaving knife. well by drawings and models, postponing his We find that very few indeed, who are indu-Patent Office Report for 1852 --- No. 7 Five patents were passed for turning lathes, claim to some part or other of it, until it had ced to subscribe for our paper, are willing to EXAMINER F. S. SMITH'S REPORT.-This exone being for turning mouldings. The several dispense with it afterwards, so that we have passed into public use, to be secure of perfectly pieces on which the mouldings are to be turnaminer has charge of those classes of inventions legitimate rights of action for discussion aftergood reason from this to believe that it gives formerly under the charge of Mr. Fitzgeralded, are clamped between two heads like the wards in the courts, or more profitable adjustalmost universal satisfaction. The mechanic, whose decisions were so often caviled at staves of a barrel. These heads are made to ment by compromise." This was a decision especially, cannot afford to be without it. We by inventors. These inventions are divided rotate on a stationary mandril. A cutter for upon part of a machine which had been descriwere told, a few days since, by one of into three classes, namely, hydraulics and turning the interior and forming one side of the bed in a patent granted in 1843, but not claimour subscribers that a short article which pneumatics; machines for manufacturing lummoulding is suspended from this mandril, and ed; it was afterwards surrendered, and a new appeared in our paper not long since, was ber, and machines for manufacturing all kinds this receives a motion corresponding to the patpatent obtained with a new claim, in 1849, embraworth more than twenty thousand dollars of fibrous and textile fabrics. It requires a tern to be turned. In another of these lathes cing that specific part unclaimed before. The deto him! Hundreds of our patrons will testify great amount of knowledge and skill to exama series of cutters of the form of the pattern to cision therefore was to the effect that the new that the information they have received from ine and decide correctly upon such inventions ; be turned, are secured to a rotating mandrel, claim was null and void, and that the part claimthe "Scientific American" is worth to them and the article to be turned is held in a sliding enough to pay for twenty copies of the paper the charge of them, therefore, is a very onerous ed was public property on the principle of abanone. The number of applications passed at carriage in such a manner that its axis is paraldonment. It had been in use for six yearsfor their whole lives. We are every day rethis desk during the year 1852, was 134; the lel to the mandrel, and can be turned and preone year less than the period since Howe's patceiving testimony of this kind. number rejected 293. Some of the patents ent was granted. If this is law and practice in sent any number of sides to the action of the Those who labor to increase our subscription granted, it is said, "display greatingenuity and cutters. A prismatic figure of any number of the case of a device which was described in a list can also have the satisfaction of knowing mechanical skill, showing the inventors to be patent, it is certainly good law and practice sides can be produced in this lathe, the pattern that they will thereby increase the value of well acquainted with the principles and mode varying longitudinally with the cutters. against the claim of Hunt, who never obtheir own paper, for we shall constantly, as our of action, as well as the defects of existing matained a patent, and whose sewing machine No less than twenty patents were granted for subscription increases, expend larger sums of chines. In many cases, defects have been enwas invented no less than seventeen years ago planing machines, thus showing that no small money in adding to its appearance and value. tirely remedied, and more perfect and simple -ten years before Howe obtained his patent. amount of ingenuity was excited to supersede The clipper ship Shooting Star, Captain If such a principle of action as that which machines produced." a machine—and an excellent one it is—we al-Kingman, made the passage from San Francis-Hunt claims, were allowed in patent cases, it Fifteen patents were granted for pneumatic lude to the Woodworthpatent, which has been co to Honolula in 11 days. Upon the arrival the would destroy the very spirit and intent of our and hydraulic machines. Three patents were held with a despotic grasp, and managed, with olynesian issued an extra, headed, "Thirty whole natent code. for instead of encouraging for water wheel improvements; one for a tur- much indiscretion. Two of these machines en days from New York, fifty from London," inventions it would retard their progress. Such bine consisted in having adjustable orifices of were illustrated in our last volume,-that of &c., containing the latest news. a principle would hang like the sword of Damodischarge, which, under different heads of wa- Norcross, on page 12, and that of Wilder, on cles over every inventors' neck ; it would make ter, can be changed without altering the curva- page 216. Our readers will find these machines **PRIZES!! PRIZES!!** inventors afraid of introducing any useful imwell illustrated and fully described on the pages ture of the buckets. Five patents were grant-The following Splendid Prizes will be given for the provement into public use, lest after they had deed for pumps, one of which, consisted in hav-referred to. A patent was also granted to B. largest list of mail subscribers to the Scientific American. veloped its advantages and made it a public ing a spiral flange wound round the spindle of Holly, of Seneca Falls, N. Y., for the improved sent in by the first of January next: benefit, some speculator in models should disa rotary pump in place of the buckets general- iron hand plane, illustrated on page 241, Vol. \$100 for the largest list. \$30 for the 7th largest list. \$25 for the 8th \$75 for the2d largest list. ditto entomb some rusty, rickettymachine from some ly used. A spring valve passing through the 7. One patent was issued for a machine for \$50for the 3d ditto \$45 for the 4th ditto \$20 for the 9th ditto old dusty dormitory, claim the new invention eduction ports in one of the heads of the casing, manufacturing blinds, which appears to be a \$15 for the 10th ditto ditto as his own property, obtain a patent, and sue for divides the pump chamber and cuts off com-\$40 for the 5th \$10 for the 11th ditto good one: the different parts for several blinds \$5 for the 12th ditto \$35 for the 6th ditto damages. munication betwen the two parts. The spiral are placed in the machine, and after being pro-The cash will be paid to the order of the successful It appears more than curious to us, that the flange appears to us to be something like a re- | perly adjusted, the several operations of boring competitors immediately after January 1st, 1854. great value and importance of the eye-pointed production of the screw pump or spiral bucket | the stiles for receiving the tenons of the slats, These prizes are worthy of an honorable and energetic competition, and we hope our readers will not let an op needle was not discovered by him who claims wheel. An elastic bucket for a chain pump the rods and slats pricked for the wires, and portunity so favorable pass without attention. to be its inventor, until its importance, as well was also patented; but leather is an elastic sub- the tenons turned on both ends of the slats, are 勪 For Terms see Prospectus on the last page. 1970

tent seals have been sold to parties and individ- excellent device indeed. uals in different parts of our country, Hunt having neither invented nor constructed a sinwhen he gets his patent, he shall insist on obtaining compensation from all who are using such machines. We confess there is now a fine field for speculating on such honest purchasers in obtaining compensation, but the people have rights as well as speculators in inventions, and purchased with their sewing machines, cannot be disturbed now with new claims for the eyepointed needle. Hunt has stated that adverse ,circumstances prevented him from obtaining a patent on his sewing machine at an earlier date; we regret to hear of any inventor being buffetted by misfortunes, but it is very prevent him from obtaining five patents since the time he claims to have invented his sewing machine, and this is the more strange because these were but trifling affairs in comparison with this seventeen year old invention. The Commissioner of Patents is a good lawyer, and we have no fears of his judgment in such a case as this. He will no doubt consider the

principle of abandonment, respecting the eyepointed needle and decide accordingly. The question of "abandonment" in inventions, is one which deeply concerns all those who purchase, sell, and use machinery. The public welfare, the advancement of science and art: the mechanic, the inventor, and the capitalist; the merchant who sells, and the citizen who buys, demand that a clear and definite line

as that of sewing machines themselves, had ! stance, and such kinds of buckets are very old ; | performed repeatedly and simultaneously. been developed and rendered a public benefit still this bucket has peculiarities belonging to by others. It does not look well, after seven- itself. It consists of a hollow spheroid of vulteen years have passed away, to come forward canized india rubber, with a curved plate of now and claim this device, especially after others metal attached, in which is the thread of a have expended thousands of dollars in improving screw; a spindle passes through the bucket, In one machine the bat is hardened on the exand introducing sewing machines into public fitting into this screw, by turning which the hausted cone without being removed; this is use. Thousands of these machines under pa- bucket is made to expand or contract,-a very

Six patents were granted for improvements in saw mills. One was for a new method of feedgle pin or wheel belonging to one of them, yet ing the log by the rake and forward motion of he comes forward, very modestly, and says the saw. The ways in which the saw gate runs are hinged at their top ends; the lower end is turned at right angles, and passes through fender posts; to this part of the way some adjustable devices are attached and connected together, so that by varying the angle of one, all are changed at the same time. A system of we tell them that the rights which they have levers acted upon by the saw gate feed in the log. The fulcrum of one of the levers is movable and connected with the ways, so that in changing the inclination of the ways, the feed motion is proportionably varied. The patent of Parker for driving saws by a new system of banding, which was illustrated on page 256, Vol. 8, "Scientific American," is favorably nostrange that such adverse circumstances did not ticed. The patent plan of A. M. George, for driving a circular saw without a spindle, illustrated on page 185, same volume, is also noticed.

> Four patents were granted for improvements in machinery for making barrels; two were plans for dressing the staves, the third was for cutting the bilge of staves, the fourth for cutting barrel heads, and the fifth for driving the hoops on casks.

> Five patents were granted for boring, mortising, and tenoning machines, and one for an expanding bit. In one mortising machine the novelty consisted in regulating the length of the vibration of the chisel by a sliding wrist, attached to the chisel and a lever beam. The sliding of this wrist to and from the centre of motion varies the length of stroke.

Sixty-three patents were granted for fibrous and textile manufactures and machinery. Four patents were granted for improvements in machinery for making felt hat bats, and for felting. effected by placing around the cone a series of conical rollers, to which a shaking and rotary motion is given in order to partially felt the fibres as they are blown upon the "former" cone. In another of these machines, the bat is hardened by placing a cone lined, with vulcanized india rubber over the bat on the "former." and admitting steam or hot water between the outside cone and the bat; a vibratory motion is then given to the cone, which hardens the hat body.

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Two patents were obtained for breaking and hackling hemp. Four cordage machines were patented; one was for an improvement in the cans for holding the strands; these are corrugated and punctured with holes for the purpose of preventing the strands from rising by the cord draught, and to allow the air to pass out while the can is being packed.

Three patents for cardingmachinery were obtained-one for colored rovings, whereby a doffer mixes different colored slivers, and forms a variegated roving.

Of three patents issued for paper making machinery, one was for a method of drying the paper by passing it between a series of perforated trunks, through which warm air is blown and comes in contact with both sides of the sheet, thus lifting the moisture and carrying it away,-a good improvement, although not new in principle.

No less than seven patents were granted for sewing machines in 1852. These are important machines, and excite much attention at present; but we must leave a further consideration of this Report until next week.

## Our Paper.

Our readers should not forget that in three

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