TIME-MEASURERS.

IN TWO PARTS -- PART II.

In 1696 a very remarkable clock was made for "le Grand Monarque," whom science, as well as literature, it seems, delighted to flatter. Louis was therein represented upon his throne, surrounded by the electors of the German States and the princes of Italy, who adwanced towards him doing homage, and retired chiming the quarters of the hours with their canes. The kings of Europe did the same, except that they struck the hours instead of the quarters. The maker, Burdeau, advertised his intention of exhibiting this work of art in public, and knowing the stubborn resistance offered to his sovereign by William III, he determined to make the English monarch's effigy particularly pliant, so that when its turn came he should show an especial hu-"William, thus compelled, bowed very low indeed; but at the same moment some part of the machinery snapped asunder, and threw 'le Grand Monarque' prostrate from his chair at the feet of the British king. The news of the accident spread in every di rection as an omen; the king was informed of it, and poor Burdeau was confined in the

fined to the work of this unfortunate French-"A correspondent of Notes and Queries for March 23, 1861, relates the following account of a curious omen or coincidence:-On Wednesday night, or Thursday morning, at 3 o'clock, the inhabitants of the metropolis were roused by repeated strokes of the new great bell at Westminster, and most persons supposed it was for a death in the royal family. There might have been about twenty slow strokes when it ceased. It proved, however, to be due to some derangement of the clock, for at 4 and 5 o'clock, ten or twelve strokes were struck instead of the proper number. On mentioning this in the morning to a friend, who is deep in London antiquities, he observed that there is an opinion in the city that anything the matter with St. Paul's great bell is an omen of ill to the royal family; and he added:- 'I hope the opinion will not extend to the Westminster bell. This was at 11 on Friday morning. I see by the Times this morning that it was not till 1 A. M. the lamented Duchess of Kent was considered in the least danger, and, as you are aware, she expired in less than twenty-four hours. I am told the same notion obtains at Windsor."

Clock-omens, it seems, have not been con-

much more useful work, and one perhaps equally characteristic of the nationality of its maker, was executed for George III by Alexander Cumming, of Edinburgh, which regis-tered the height of the barometer. "This was effected by a circular card, of about two feet in diameter, being made to turn once in a year. The card was divided by radii lines into three hundred and sixty-five divisions, the months and days being marked round the edge, while the usual range of the barometer was indicated in inches and tenths by circular lines described from the centre. A pencil, with a fine point pressed on the card by a spring, and held by an upright rod floating on the mercury, accurately marked the state of the barometer; the card, being carried forward by the clock, brought each day to the pencil. It was not even necessary to change the card at the year's end, as a pencil with a different colored lead would make a distinction between two years. This barometer-clock cost nearly two thousand pounds, and the maker was allowed a salary of two hundred pounds per annum to keep it in repair."

A century after Burdeau's master-piece a

Taking leave of these ingenious complications, we may say indeed that in nothing has "man sought out many inventions," or exhibited his diligence and patience, more than in the science of clockmaking. Earth, air, fire, and water have been pressed into his service for this purpose-the sand or earth clock being worked like the water-clock; the air-clock consisting in the pumping of a bellows, like those of an organ, the gradual escape of the air regulating the descent of a weight, which carried round the wheels; and the fire-clock being formed upon the principle of the smoke-jack, the "wheels being moved by means of a lamp, which also gave light to the dial; this clock was made to announce the several hours by placing at each, a corresponding number of crackers, which were exploded at proper times." This very alarming time-piece was outdone by a cannon-clock placed in 1832 in the gardens of the Palais Royal. "A burning-glass was fixed over the vent of a cannon, so that the sun's rays at that moment of its passing the meridian were contracted by the glass on the priming, and the piece was fired; the burning-glass being regulated for this purpose every month." At Greenwich Observatory there is a most ingenious windclock, which, however, is not a time-measurer, but registers for itself, with pencil and paper, the wayward action of the wind. "Each minute and each hour has its written record, without human help or inspection. Once a day only, an assistant comes to put a new blank sheet in the place of that which has been covered by the moving pencils, and the latter is taken away to be bound up in a volume. This book might with truth be lettered, 'The History of the Wind; written by Itself'—an Æolian Autobiography." The well-known and simple piece of

mechanism called a cuckoo-clock has been the cause of some spiritual mis-chief. An assortment of them was taken by certain missionaries to the Friendly Islands, the inhabitants of which resolutely refused to attribute them to science; they believed that each contained a spirit which would detect a thief if anything were stolen from their English visitors. When a native was sick, the cuckoo-clock was always sent for, as being "great medicine." Unfortunately, however, one of the clocks got out of order, and since the missionaries did not understand how to set it right, they fell into contempt, and lost their usefulness.

The two most curious examples of clockwork-apart from intricacy-to which Mr. Wood has introduced us, are the clock-lock and the clock-bed. The former, made by a locksmith of Frankfort in 1859, consisted of a strong box without any keyhole at all, and which even its owner could not Inside was a clock-work, the hand of which, when the box was open, the owner placed at the honr and minute when he again wanted to have access to the interior of the box. The works began to move as soon as the lid was shut, and Time alone was the key. The clock-bed was the invention of a Bohemian in 1858, and was so constructed that a pressure upon it caused a soft and gentle air of Auber's to be played, which continued long enough to full to sleep the most wakeful. At the head was a clock, the hand of which being placed at the hour that the sleeper wished to rise, when the time arrived the bed played a march of Spontoni's (spontaneously) with drums and cymbals, enough to rouse the Seven Sleepers.

For usefulness and accuracy, however, we English may well be proud of our own clocks. The great timepiece of Westminster, which receives Greenwich time by elec-

tricity, exhibits no sensible error in less than a month. Mr. Airy's last report upon its rate was that the first blow of the than a month. hour may be relied on within less than one second a week; which is a seven times greater accuracy than was required in the original conditions under which the clock was built,

A proportionate part of Mr. Wood's interesting volume is devoted to the smaller subect of watches. The invention of the coiled spring as a motive-power, instead of the weight used in clocks, seems to have taken place in 1477, at Nuremberg, where watches were first made, and called, from their oval shape, Nuremberg eggs. In 1530, we find Charles V, in his retirement at the mounstery of St. Yuste, amusing himself with "portable clocks;" reflecting:-"How foolish I was to have squandered so much blood and treasure to make men think alike, when I can't even make a few watches keep uniform time!" and good-naturedly observing, when a clumsy monk overthrew them all:—"I have been laboring for some time to make these watches go together, and now you have effected it in one instant." This emperor possessed one watch that was made "in the jewel or collet of his ring," so that diminutiveness of construction must have been rapidly attained to. George III, however, had a repeating watch presented to him (by Arnold of Devereux Court, in the Strand), whose size did not exeed that of a silver twopenny piece. "It contained one hundred and twenty different parts, but altogether weighed not more than five pennyweights, seven grains and three-fourths."

* * * For this delicate and exquisite specimen of his art, Arnold had to make nearly all the tools used in its manufacture. This tiny watch contained the first ruby cylinder

ever made. The king presented Arnold with five hundred guineas, and when the Emperor of Russia offered a thousand guineas for a similar one, the watchmaker refused to make it," lest he should depreciate the value of his

When Diana of Poitiers became mistress of Henry II of France, the courtiers, because she was a widow, paid her the singular compliment of wearing watches in the shape of skulls and coffins. Sir John Dick Lauder possesses a skull-watch that belonged to Mary, Queen of Scots; this is of silver gilt, and ornamented with representations of Death between the Palace and the Cottage; the Garden Eden, and the Crucifixion; the The works are as brains in the skull, the hollow of which is filled by a silver bell; the dial-plate being on a flat upon the roof of the month. With reference to this ghastly subject, Mr. Wood relates that in a French engraving of 1830, Death enters a watchmaker's shop, and shows his hour-glass to the master, saying:-"Vais-je bien?" to which the latter answers, "Vous avancez horriblement," Many persons addicted to the science of watchmaking seem, indeed, to have been on unusually familiar terms with the King of Terrors; and some have left epitaphs behind them of a very characteristic nature. In the churchyard of Lydford, in Devonshire, is to be read the following:-

Here lies in a horizontal position the cutside case of George Routleigh, watchmaker, whose abilities in that line were an honour to whose abilities in that line were an honour to his profession.

Integrity was the mainspring, and prudence the regulator of all the actions of his life;

Humane, generous, and liberal, his hand never stopped till he had relieved distress:

So nicely regulated was his movements, that he never went wrong, except when set-againg by people who did not know his key:

Even then he was easily set right ugain.

He had the art of disposing of his time so well.

so well,
That his hours glided away in one continued round of pleasure and delight,
Till an unlucky moment put a period to his

He departed this life November 14, 1802, in hopes of being taken in hand by his Maker,
And of being thoroughly cleaned, repaired, and
set-agoing for the world to come.

A much pleasanter compostion in connection with watches is to be found in the Gentleman's Magazine for 1809:-

ON SEEING A PRENCH WATCH BOUND THE NECK OF A BEAUTIFUL YOUNG WOMAN.

Mark what the gain from foreign lands; Time cannot now be said to linger, Allowed to lay his two rude hands, Where others dare not lay a finger. Of course watches could not be made to imitate the feats of the Strasburg clock; but in the Academy of Sciences at Petersburg there is a watch which was made by a Russian peasant, named Kulubin, in the reign of Catherine II, which is sufficiently wonderful. It is about the size of an egg, and contains a representation of the tomb of Christ, with the Roman sentinels. On pressing a spring, the stone is rolled from the tomb, the sentinels fall down, the angels appear, the holy women enter the sepulchre, and the same chant which is sung in the Greek Church on Easter Eve is accu-

rately performed. The most costly and elaborate watch ever produced by British workmen, up to 1844, was made in that year by Hart & Son, of Cornhill, for the Sultan Abdul Medschid; the brilliancy of its colors, and exquisiteness of its pencil ling, seem to have surpassed anything of the kind of foreign manufacture. It struck the hours and quarters by itself, and repeated them with the minutes upon pressing a small gold slide; and the sound, produced by wires instead of a bell, resembled that of a powerful and harmonious cathedral clock. Its price was one thousand two hundred guineas.

The most accurately exact watch is probably Mr. Benson's Chronograph, used for timing the Derby. "It consists of an ordinary quick train lever movement, on a scale sufficiently large to carry the hands for an eight-inch dial, and with the addition of a long seconds-hand, which traverses the dial, instead of being, as usual, just above the figure VI. The peculiarity of the chronograph consists in this seconds-hand and the mechanism connected with it. The hand itself is double, or formed of two distinct hands, one lying over the other. The lower one, at its extreme end, is furnished with a small cap or reservoir, with a minute orifice at the bottom. The corresponding extremity of the upper hand is bent over so as to rest exactly over this puncture, and the reservoir having been filled with luk of a thickness between ordinary writing fluid and printers' ink, the chronograph is ready for action. The operator, who holds tightly grasped in his hand a stout string connected with the mechanism peculiar to this instrument, keeps a steady look-out for the fall of the starter's flag. Simultaneously, therefore, with the start of the race the string he holds is pulled by him, and at the same moment the upper hand dips down through the reservor in the lower, and leaves a little dot or speck of ink upon the dial. This is repeated as the horses pass the winning-post, so that a lasting and indisputable record is afforded by the dots on the dial of the time-exact to the tenth of a second—which is occupied in running the race. As an example of the results of this matriment's operations, we may add that it timed the start and arrival of the Derby race in 1866 as fillows:—Start, 3 hours, 34 min., 0 rec.; serival, 3 hours, 36 min., 49 sec.; duration of race, 2 min., 49 sec."

The State of Links and State

To No. 134 DOCK Street, PHILADELPHIA To give an idea of the extraordinary divi-

sion of labor in this delicate science, it was stated in evidence before a committee of the House of Commons, that there are one hundred and two distinct branches of the art of watchmaking, and that the watch-finisher, whose duty it is to put together the scattered parts, is the only one of the hundred and two persons who can work in any other department than his own. The hair spring gives a very curious proof of the value that can be given to a small piece of steel by manual labor. Four thousand hair-springs scarcely weigh more than a single ounce, but often cost more than a thousand pounds. "The pendulum-spring of a watch, which governs the vibrations of the balance, costs, at the retail price, twopence, and weighs three-twentieths of a grain; while the retail price of a pound of the best iron, the raw material out of which fifty thousand such springs are made, is the sum of twopence." Mr. Rennett — whose advocacy of female Bennett — whose advocacy of female labor in the watch-trade has rendered him obnoxious to some persons-states that he found at Neufchatel, where the Swiss watches are chiefly made, twenty thousand women employed upon the more delicate parts of the watch movement. The last part of this very interesting volume

is devoted to that perfection of timekeepers, the chronometer, by which is found the longitude of a ship at sea. Twenty thousand pounds was offered by the British Government for the invention of this instrument, which was awarded to John Harrison in 1765. His chronometer, in the first instance, was discredited on a voyage to Jamaica, since it differed with the chart by a degree and a half, but it was eventually discovered that it was the chart that was wrong. Of how accurately chronometers are made, there are numberless instances; here is one with which we must conclude. "After several months spent at sea," writes Dr. Arnott, "in a long passage from South America to Asia, my pocket-chronometer, and others on board, announced one morning that a certain point of land was then bearing north from theship, at a distance of fifty miles. In an hour afterwards, when a mist had cleared away, the looker-out on the mast gave the joyous call of "Land ahead!" verifying the reports of the chronometers almost to one mile, after a voyage of thousands of miles. It is allowable at such a moment, with the dangers and uncertainties of ancient navigation before the mind, to exult in contemplating what man has now achieved. Had the rate of the wonderful little instrument in all that time quickened or slackened ever so slightly, its announcement would have been useless or even worse; but in the night and in the day, in storm and in calm, in heat and in cold, its steady beat went on, keeping exact account of the rolling of the earth and stars; and in the midst of the trackless waves, which retain no mark, it was always ready to tell its magic tale, indicating the very spot over the globe over which it had arrived.

Among the relics of the Franklin expedition brought home from the Arctic regions by Mc-Clintock was a pocket-chronometer in excellent preservation; it had stopped at 4 o'clock. The owner probably had done with Time ere that.—Chambers' Journal.

FURS.

1867. FALL AND WINTER. 1867

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The undersigned invite the special attention of the Ladies to their large stock of FUES, consisting of Muffs, Tippets, Collars, Etc., IN RUSSIAN SABLE,

HUDSON'S BAY SABLE, MINK BABLE ROYAL ERMINE, CHINCHILLA, FITCH, ETC. All of the LATEST STYLES, SUPERIOR FINISH and at reasonable prices.

Ladies in mourning will find handsome articles PERSIANNES and SIMIAS; the latter a most beau CARRIAGE ROBES, SLEIGH ROBES, and FOOT MUFFS, in great variety.

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LEGAL NOTICES.

IN THE DISTRICT COURT FOR THE CITY In the district court for the city and county of philadelphia.

Michael shaffer vs. John satchell.

Level facies. June ferm, 1857. No. 703.

The Annilor appointed by the Court to distribute the fund arising from the sale under the above write from the tolowing described real estate, to wite—All that certain lot or piece of ground situate on the south side of Coates street, at the distance of fifty five south side of Coates street, at the distance of fifty five south side of Coates street, at the distance of fifty five street ten inches and three-quarters of an inch essiward from the ener side of Thirteenth street, in the late that the sale ward from the ener side of Thirteenth street, in the ward of the City of Philadelphia: containing in front or presdit on said Coates street eighteen leet, and extending southward between lines at right angles with said Coates arees, is length or depth on the east line thereof forty-litre last to the head of a three feet wide alley leading southward into Penn alreet, the dea along the reastwardly side of the alley said that ward seventeen services, said ward for ground now or late of William Harman, and thereof into the said Coates wide alley leading northward into the said Coates wide alley leading northward into the said Coates wide alley leading locity and the back ends of Ann W. English and Nathan Street, but Thirteenth street loke, and partly by said three-leet wide alley leading southward into said Penn street.

Will meet the partles interested for the purposes of his appointment at his Office, No. 122 s. FIFT if Street, in the city of Philadelphia. TURSDAY, the Fith day of December, 1867, at 4 o'clock P. M., when a d where all pensors interested are required to make their claims, or be debarred from coming in apen said finad, 125 let

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Mortgage Six Per Cent. Bonds.

25,000 Pennsylvania Raliroad (second

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7,000 State of Tennessee Six Per Cent.

Loan.

15,000 300 shares - tock of Germantown

Gas Company. AFERTS OF THE COMPANY. 210,070.00 125,825 00 19.860*00 4,270 00

15,000 300 shares \times took of Oermantown
Gas Company (principal and interest guaranteed by the city of
Philadelphia).
7,560 150 Shares Stock of Pennsylvania
Rallroad Company.
5,000 100 Sbares Stock of North Pennsylvania
Stakallroad Company.
20,000 80 Shares Stock of Philadelphia and
Southern Mail Stammint Company. 18,000°00 7,800*00 3.000.00 15,000*00

201,900 Loans on Bonds and Mortgage, first Hens on City Properties..... 201,900:00 Market value \$1,102,502-56 Cost \$1,089,879-26. \$1,101,400 par. Real Estate

Bills Receivable for Insurance
made made Balances due at Agencies Premiums on Marine Policies Accured Interest, and other debts due the Company Stock and Scrip of Sundry Insurance and other Companies, \$5075.00 Estimated value \$103,917.10 Cash in Drawer 205,62 219,185-67 43,331'30

3,017'00 103.315402 DIRUCTORS. Thomas C. Hand, John C. Davis, Fomund A. Souder, Ioseph H. Seal, James C. Hand, James Traquair. William C. Ludwig. Theophilus Paulding, Hugh Craig, Kdward Darlington, John R. Penrose, H. Jones Brooke, Jacob P. Jones, James B. McFarland Jeahua P. Eyre, John D. Taylor, Spencer McLivaine,

A. Jones Brooke,
Henry Slean,
Seorge G. Leiper.
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JOHN C. DAVIS, Vice-President,
BENRY LYLBURN, Secretary,
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Also, AMERICAN WATCHES of all sizes.

Diamosd Sets, Pins, Study, Rings, etc.

Coral, Malachite, Garnet, and Etruscan Sets, in [5 1249] great variety.

SOLID SILVERWARE of all kinds, including a large assortment suitable for Bridal Pre-cuts.

> CARLES CO. FINE WATCHES. .

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FINE FRENCH CLOCKS, OF THERE OWN IMPORTATION, IN THE STREET,

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NO. 414 LOCUST STREET. GEORGE SHARP, Patentee of the Hall and Cube patterns, manufactures every description of fine STERLING SILVER-WARE, and offers for sale, wholesale and retail, a choice assortment of rich and beautiful goods of new styles at low prices. (9 25 3m) A. ROBERTS. J. M. SHARP.

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AND BUBGLABPEOUR LOCKSBITH, BELL HANGER, AND DEALER IN BUILDING HANDWARD, NO. 484 BACK STREET,

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6. Example Postable.

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