ABOUT YOUR WATCH.

the ter-

of

'8**re**

lite

írs.

en d

1_1-

ler

61.6

eat

rit **h**

ing

16**C**

11**6**.

0.D

ta-

ta-

e**r a**

3BC

ıed

ew

h£,

re-

876

an

JUE

ic**h**

i a

18.5

18.6

370

nt.

ed

wø

of

to

aD

8.5

¢У

hÐ

0**r**

27-

nđ

P-

no

8r_

to

80

it

LC

11-

lđ

B-

us

0Ľ

he

of

in Je

he

1**t.** 9**r**-

я-у. р-d-е. у. ц-

8.

ю.

:1-

g-

y

ty

in

111

ho

'n

it, 0**2**

5-

55

ts

₽đ

)DL

m

18

18

t-

ıg rl

đ,

۲-

ts

18

n,

n.

18 |-

ď

18

38

53

y, ir

Br

1Ł

8.

it.

D**T**

ι**γ**

-ie

ľt

3đ

n,

D.

FACTS ABOUT TIMEPIECES WHICH MANY ARE NOT AWARE CE

A Wonderful Piece of Mochantsm-Springs and Screws That Are Only Visible Under a Magnifying Glass-They Are Also Very Costiv.

Open your watch and look at the wheels, aprings and screws, each an indispensable part of the whole wonderful machine. Notice the busy baiance wheel as it flies to and fro day and night, year out and year in. This wonde: ul little machine is the result of hundreds of years of study and experiment.

The watch carried by the average man is composed of ninety-eight pieces, and its manufacture embraces more than 2,000 distinct and separate operations. Some of the smallest screws are so minute that the unaided eye cannot distinguish them from stee! filings or specks of dirt.

Under a powerful magnifying glass a perfect screw a revealed. The slit at the head is one-fiftieth of an inch wide. It takes 108,000 of these screws to weigh a pound, and a pound is worth \$1,500.

The hairspring is a strip of the finest steel, about nine and one-half inches long, one-hundredth of an inch wide, one-four-hundredth of an inch thick. It is coiled up in spiral form and finely tempered.

The strip is gauged to one-fifth of an inch, but no measuring instrument 'as as yet been devised capable of fine enough gauging to determine beforehand the size of the strip what the strength of the finished spring will be. A one-five-hundredth part of an inch difference in the thickness of the strip makes a difference in the running of a watch of about six minutes , er hour.

The value of these springs when finished and placed in watches is enormous in proportion to the material from which they are made. A ton o. steel made up into hair springs when in watches is worth more than twelve and one-half times the value of the same weight in pure gold.

Hair-spring wire weighs onetwentieth of a grain to the :nch. One mile of wire weighs less than half pound. The balance gives five vibrations every second, 300 every minute, 18,000 every hour, 432,000 every day. and 157,680,666 every year.

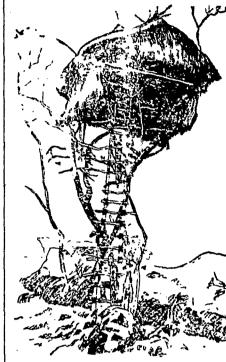
At each vibration it rotates about one and one-fourth times, which: makes 197,100,000 revolutions every year. Take, for illustration, a locomotive with six-foot driving wheels. Let its wheels be run until they have given the same number of revolutions that a watch does in a year, and they will

The Strange But Gifted Inhabitants of New Guinea in the South Seas.

PEOPLE WHO LIVE IN TREES. EFFECTS OF TEA DRINKING.

Of all the islands of the south seas New Guinea is in some respects the most peculiar. With its towns built on the water, its native castles in the trees and its strange native inhabitants, who have been steadily dying out since the advent of the white man, it is an intensely interesting bit of the world. The natives are glited with such remarkable powers that they can see into be ist by signs that the white man cannet learn; they can the food and drink in deserts where w : + men would per-

ish of thirst and s.... vation. The accompanyin, picture represents one of the treehouses built by natives



HOUSE IN THE TREE TOPS. of the island. Among the savage tribes are warriors who are known as the 'head hunters." The aerial houses are built as refuges from the head hunters. When the cry is raised that the head hunters are coming the feeble and the women flee to the tree huts and the able men arm for the fight.

Safety Paper.

A new kind of safety paper for banks, &c., is announced, though the inventor's name does not appear. It is a foreign idea, one feature of the invention consisting in printing or otherwise impressing on the paper employed a plurality of sets of lines or marks, one or more of which sets are indelible and the remaining sets delible; these lines or marks are made so fine and so closely alternating or relatively disposed that, in ordinary ob-

The Majority of Physiciana Contond That It In Injurious.

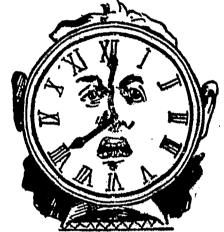
"Moderation is the best temperance; temperance is the best diet, and diet is the best doctor." says an old New York physician, "and some authorities insist that tea is a most potent destroyer of the digestive organs, while others insist that it is comparatively barmless if taken in moderation, and that it is only in exceptional cases that It has this injurious effect. But the distances far beyond the vision of the majority of physicians and scientists whate man; they can track the wild are unanimous in conceding that the action of tea, if used in large quantities, is more or less injurious for the nervous system for the thein, which is the organic basis of tea, is a potent aervine and many cannot use it without injury to themselves. - Numbers

of people are dyspeptic and nervous from the continued use of tea."

Dr. Edward Smith. of Indiana, says: "In reference to nutrition, teaincreases waste, since it promotes the transformation of food, without supplying nutriment, and increases the lost of heat without supplying food," therefore, he thinks, tea should should only be taken after a full meal. There is no doubt that the action of tea is stimulating in its effect. It increases the action of the heart and arteries, and furnishes a transient increase of vitar energy; but it is not nutritive, and the very fact that among the poorer classes the addition of acupof tea to an otherwise meager diet, makes it palatable, is misleading, for while it allows one to live on less food for a time, the result, sooner or later, must be injurious.'

A Human-Faced Clock.

An ingenious watchmaker in St. Petersburg has just finished an extraordinary specimen of his art and has put it on exhibition. It is a human-



HUMAN-FACED CLOCK.

faced clock, with the hands pivoted on the nose. Any messages spoken into the ears of the clock are repeated by a oncerant through its month.

ABOUT BALLOONING. SOME CURIOUS FACTS RELATED BY AN OLD AERONAUT.

Man Who Pierce the Skies Faerloady Canmot Look Over the Edge of an Chedluary Ballding Without Terror-Trouble Dos to Self-Conscioument.

"Few men or women who sail up to the skies in balloons with entire fearlessness could stand on the ledge of a third story window without experiencing that faintness and nausea which terror inspires or feeling an almost irresistible desire to fing themselves headlong to the pavement below," said the old aeronaut.

"Why is it thus?" I asked in aurprise.

"It is, I think," returned he, "due entirely to the fact of self-consciousness. Balloonists are all more or less self-conscious. It is that way with every person who is favored with constant public notice or with supersensitive, highly cultivated or intellectual folk. In close proximity to their ferlow men and things of earth their sensibility to surroundings is invariably acute. There are few of such persons who could walk along the edge of a tall building or who could peer down from the brink of a procletice without suffering vertigo and that strange hysteric impulse to jump off. This is because they are too thoroughly aware of their own personalities, or, in other words, because they are always thinking of themselves.

"Now, a person who is not self-conscious may parade up and down on the tops of cliffs, climb steeples or cling to the ridge of a skysoraping building without the slightest degree of fear or inconvenience. His sensibilities are blunted; he is not sufficiently imbued with the idea of his own personal worth to heed the perils and discomforts of a lofty position. But put that same individual into a balloon and send him up into the sky for a couple of miles and, most paradoxically, he at once becomes nervous, restless and eventually evinces the liveliest fear. He is liable to become sick and faint. and manifests all those disorders common to the self-conscious man at an eminence of a hundred feet of so. "The latter, however, the momentyou get him a thousand feet above the

earth, the moment all familiar objects. begin to recede from his view, lowes all fear and tendency to vertiginous disturbances. A strange exhibaration possesses him, and likewise an impulse to dare and do. If there be a trapese attached to the balloon he wants to climb down and swing in it.

"That is why professional seronauta ascend to great heights and swoop



Ine recent art and of the most rebable our customers at a very models over actual cost. This is on a that should not be mused by an ing floor coverings.

Tapestry Brussels. 48c Per Yd.



- Ingrains A large variety of patterns and colorings in generation to be the very beat. Velvets—These rich and beantiful carpets are more pointed Witten Velvets. We were particularly formulas in and choice patterns in these high grade gools. Arminister, Secony Arminister and Moquettes at the control Beat Arministers, indeed quality of three grades of the Patterns, colorings and quality all that can be desired.

purchaser. Rugs-Large assortment in all grades of small, medical and

tiful patterns in moquette suga systa incluse, at \$1.75. Oil Cloths -- Large assortment of new designs, including a full at

petterns. Plain figure prices prevail in this as let every other departments

H. B. Graves, "" Boundary

School Books.

A full line of READERS, HISTORIES, GRAMMER, GREATERT, G ECHISM and WRITING BOOKS for Catholie Parochial Schools: Les assortment Composition Books, Pads and Somoon Superiors

at lowest prices.

284 Kent Main St. Wenderland Theatre Bidg. Roundate



Mrz." Tilumtrabing Placion Alexan Taggard. "Tri or FIFEA." Illustre Clare Matholitanit. Romi Dugla. - " Dig Ywry Bari P Constant

Rev. Distil Therry: "Transfer where Rey. A. A. Lauthing. "Tax Manager and

have covered a distance equal to twen. ty-eight complete circuits of the earth.

A Freak of Nature. A well known Cleveland man, who is never without his camera, was visiting in the neighborhood of Plattsburg, N.



Y., a few days since. In his ramblings be came across a queer freak of nature. He found himself in a grove of tall poplar trees and through the trunk of each ran from one to four boards. They extended from one side to the other through the very center of the trees. No one seems able to find ont how the boards became so strangely a part of what they were in their original state. It is thought the boards were placed between small sprouts and as the latter grew surrounded the boards.

Items Worth Perusing

Flying machines are used by aircastle dwellers.

The enthusiastic scorcher seems to have a special bent. Worthless people are always more

amusing than worthy ones. The actor who has a summer engage-

ment has no fear of a "frost." It's unnecessary to tell a boy to prac-

tice economy in the use of soap. The average man prides himself on the possessions his neighbor can't af-

ford. All the messages sent to the world through the medium of books are sent collect.

Some men try to make light of their troubles by burning their unreceipted hills.

Prohibitionists will no doubt rejoice when Uncle Sam makes the Spaniards take water.

Courtship seems like a dream to the average girl-and after marriage she wakes up and finds it was.

About the greatest difficulty some people experience is in trying to keep appearances up and expenses down,

In Paris accident insurance policies are issued guaranteeing the holder against the consequences of the damage he may inflict on others. They are taken out chieffy by cab drivers. The Adirondack mountains comprise

an area of 3,588,800 acres. There are over 1,300 lakes and lakelets, with 20 rivers and about 100 rivulets.

servation with the naked eye, no sin gle line or mark is distinguishable. Again, the indelible lines or marks are made of a color differing from though complementary to that of the delible lines or marks, so that, owing to their

close juxtaposition, they will convey the impression of a color differing from those of either of the sets of lines or marks. Thus, any chemical action or erasure on such paper would, it is claimed, be at once discernible, and the shade made by the two color combinations would be hard to duplicate.

New Uses of Aluminum. "Aluminum has lately found its way extensively into vibrating and reciprocating machines, both large and small." says the Engineering and Mining Journal. "Here the advantageous use of the metal is entirely a matter of reducing the weight. Probably the best illustration of the use of aluminum in revolving machinery is in using an oil cup on the driving-wheel of a locomotive in connection with a drivingrod. With the increased speeds that the roads are now aiming to attain, it is necessary to increase the diameter of the driving-wheels, and consequently the tendency to break the shank of the oil cups materially increases, and with some of the large engines which have been built, cups made of composition are frequently broken. These cups are now, and have been for some time, successfully cast in aluminum. and have given great satisfaction."

Protection for Railway.

On the new Russian military railway from Europe to Andijan, on the borders of the Chinese empire, a tree like shrub called the sascaoul had to be planted all along the line through the desert to prevent the rails being covered by sand. For further protection a ribbon of wild oats runs along both sides of the railway.

Fruits Which Are Injurious.

Bananas are very bad for some paople and so are raspberries and rhubarb. Indeed, all fruit like gooseberries, that have numerous tiny seeds, are very often undigested where the person is not strong and cause various disagreeable complaints.

The Mushroom's Life.

The mushroom's life is measured by hours, but it flourishes long enough for an insect to hang its egg on the edge of the "umbrella" and for the eggs to become an insect ready to colonize the next mushroom that springs up.

Wonders of the Turnip.

A turnip seed increases its own weight fifteen times in a minute. On peat ground turnips have been found to increase by growth 15,999 times the weight of their seed each day they stood upon it.

' Waste of Time.

Before a fire brigade can start for a fire in Berlin the members must all fall in line in military fashion and salute their captain. This proceeding wastes at least three minutes.

Tobacco Patents. The necessity of preparing tobacco for the consumer has developed 2,274 patents.

American Clothespins. Whenever the wash is hung out 'o dry, all the world over, it more than likely to be pinned on the line with American clothespins. Americans sell slothespins practically everywhereall over Europe in South Africa, South America, Australia and elsewhere. Some clothespins are made for the supply of local markets in Sweden and in Scotland, but they are big and clumsy pins, twice the size of the Americans, and whittled out by hand, and

American pins are sold in both these countries in competition with the home production. Clothespins are made chiefly of beech and of maple; some are made of tupelo wood. They are made entirely by machinery. counted into boxes containing 720 each by machinery, and the boxes are nailed up by mechinery. It might emost be said that blocks of wood fed to machines one end come out boxed clothespins at the other. They are made and sold wonderfully chap. There are two grades of clothespins, firsts and seconds. First-grave pins can be bought for thirty-two cents a box. The production of clothespins 3 enormous-millions of boxes annually. The consumption in this country keeps pace with the growth of the porulation, and great numbers are exported. Even people in the trade wonder what becomes of all the clothespins.

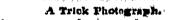
Academy of Women In Paris.

There is some talk of instituting an Academie de Femmes in Paris and the idea is, of course, attributed to the march of the nineteenth century. This is by no means the case. Nearly 200 years ago Mme. de Maintenon wrote: "At Mme. la Duchess de Bourgogne's all devote themselves to saying clever things and the duchess is delighted with the conversations that take place -logic, rhetoric, physics are all discussed and examined into. It is pronosed to form an Academie de Femmes, composed of forty members. There are already twenty on the list." So it seems probable that had the project of the Duchesse de Bourgogne not been cut short by death we might now have had an Academie de Femmes of two centuries' standing. But who imshognay color, after drying. were the twenty "immortelles siready on the list?" Mme. de Sevigne, whose letters were not yet published, died in 1696: Mdlle. Scudery, "the tenth muse." in 1701; and Mme. de Genlis was not horn. In this century the twenty would be more easily found and would certainly include the names of Mine. do Stael. Mme. Swetchine, Mme. de Segur, George Sand, Mme. de Girardin and Mme. Craven. Much of the literary talent of earlier days was devoted.

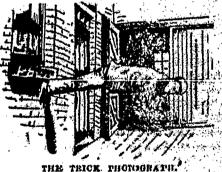
to the writing of private letters-now. alas! thanks to telegrams, post cards and the "pace" necessary to keep up with this flying century, almost a lost



down to earth by means of the parachute. They have lost all connelousness of themselves among the glouds. and holdly trust themselves to the hypothetical safety of the big umbrellas without a tremor of lear. Yet I vanture to say not one of these professionals would trust himself to leap from a building 150 feet high with a parachute. I doubt if many of them at such a height could be persuaded even to venture close enough to the edge to peer into the street."



A correspondent sends a very remarkable photograph. If held upright it looks exactly as if a man were standing on the side of the house, and wiewed in the ordinary way it appears as if he were projecting from the wall of the house, without any visible means of support, as the police say about the tramps. It might even do for an "ani-



mal magnetism" photograph. The explanation is quite startlingly simple. The young man is merely lying on a scaffold pole stuck through the wall.

Paper Floors. Now we have paser floors. An important advantage of paper floors consists in the absence of joints or seams. whereby an accumulation of dust, vermin and fungi is done away with These new paper floors are bad conductors of heat or sound, and have a soft feeling to the foot. The costs are considerably lower than of bardwood floors, the paper mass is shipped in bags in powder form, with a small addition of cement as a binder file stirred into a stiff paste, spread out on the floor, pressed down by means of rollers, and painted the oak wood or

Told Out of Court. "What was the heavlest fee you ever got?" asked the pert young lawyer of the Nestor of the bar. "A yearling calf and a load of pumpkins; aggregate weight a ton and a

quarter." the section of the se Mothers, when your children are as taoked by the dreadful croup, you need not despair; Dr. Bull's Corigh Syrup will relieve and oure them at once. You can always depend on this marvelous remady; it always curves. D. McCornick 138 Blate av Buocrn & Morgas, cor Spring a Morgan Correct D. C. McClesse 2711, ppl av



Our Boys' and Girls' Animal FOR 1808 Constains Stories, Camer, Telefin, International M

sic., with a large sumber of Parity Thinks PRICE S CENTS

Subscript for the Flow Illustrated Cathante Manual "Our Boys' and Girls' Own TE CENTE & YEAR IN ADVANCE. Burd for free Burght Anter Bentleit wert in gemitt for unterfintitung frite Biefer alle

BENZIGER BROTH CINCIDINATI:

LEWIS BDD Dealer in D. L. & W 40 North Ave., near N. T.C. B.H.

Hollister Lunible MUDINALES EN STRAG 106 North Geodman Street, South

JOHN HADO Dealer in LUMECR Lumber Office, 515 Exchange Stree Yards on W. N. Y. and R. R. N. M. C. D.

G. H. STANEKOE Manufacturer of Sash, Doord, Billingsandige Course Window and Door Prime Standard Standard







