

the moon. High tide will be there.

heaped up also, and this is a little de-

tail that puzzles most people, because

water. The reason of the seeming

paradox is that the waters on the dis-

tant sides are thousands of miles fur-

though they are on opposite sides of

Present Perfect Form of Dress Large-

ly Due to Genius of William

Hannis Taylor.

air without an influx of

while a short pipe entered the body

plece on the other side, and was pro-

vided with a valve which carired off

First Diving Armor.

the exhaust. Although diving armor

has now reached its perfected state, this valve has never been materially

improved upon. The accompanying il-

Justration is reproduced from Mr.

Shifting of North Pole.

Since the autumn of 1899 the slight

shifting of the north pole has been ob-

served closely at six stations around

the world near the thirty-ninth paral-

and one-half times in an irregular

spiral course. The pole was very

near its middle place in 1900, and

nearly touched the center again in

1906 and 1907. Its oscillation reach-

ing another maximum in 1909, it kept

about 30 feet away from its central

place during the rest of the year.

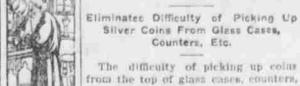
Oyster Shell Window Pancs.

On the west coast of India is found

Taylor's patent.

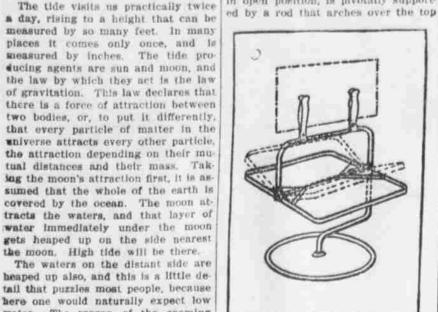
dress, and is still in use.

the earth.



HOLDER FOR SMALL CHANGE

te. has resulted in the invention of umerous articles to facilitate the collection of change. There are rubber mats and felt mats and hollowed glass ORIGIN OF THE OCEAN TIDES trays galore, but one of the most precentious of these devices is that de-Producing Agents Are Sun and Moon signed by a Washington man and and Law by Which They Act is shown here. A metal or wooden That of Gravitation. folding pan, that normally is fastened In open position, is pivotally support-



Holder for Change.

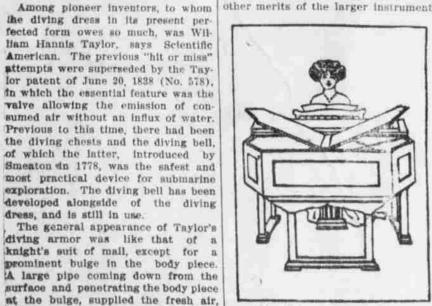
ther away from the moon than is the of it and curves under it to the cenearth's center. The earth thus gets ter of an extended base. There is more of the moon's pull than the dis- room both above and below the pan tant waters. These waters heap them- to turn it and insert a hand.

selves up away from the earth and The change is laid on the tray and moon, and high tide will be there also, the customer holds his hand beneath The observed tide is the effect of both it and tilts it, the coins thus being lunar and solar pull. Of the two the dumped off in a twikling. There is sun's pull is the weaker, because of no clawing necessary, as when the his greater distance from the earth. money lies on a flat surface that is At new moon the height of the tides immovable. The tray is made to fold is increased. Sun and moon then pull in the center and can be closed when in the same direction. At full moon not in use. At the top of the support there is also an increased height. Sun are clips adapted to hold notices or and moon then reinforce each other, advertising cards.

WELL BALANCED GRAND PIANO

INVENTOR OF DIVING ARMOR New Musical Instrument Which Comes From England Possesses Tone Purer Than Big Ones.

> In the effort to secure a compact grand plane, with all the volume and other merits of the larger instrument,



The Balanced Grand Plano.

there has been evolved in England the balanced grand, which is said to have all the points of merit of the large instrument without its bulk and its unwieldly shape, for it is arranged so that one side is the duplicate of the other. This change in shape has required the scale being doubly overstrung, giving a tone of volume and quality which many musicians claim is purer and has greater carrying power than the old full-sized instrument. This is the very first plane of symmetrical shape and that opens either side, the top forming two lids, hinged in the center so as to distribute the sound waves.

Electrified Smoke.

The smoke problem was the chief topic of discussion in the convention of the American Chemical society, recently held at San Francisco. Leading scholars contributed a symposium on smelter smoke, Prof. E. G. Cottrell of the University of California has gained greater success so far than any chemist in the solution of the smoke evil. Cottrell's remedy is an electrical precipitation of the impurities in smoke by sulphuric acid. lead and zinc. Cottrell proposes to make the smoke which pours from the smelter chimneys of the country harmless by static electric discharge.

Novel French Brake.

The resistance of water to a paddle wheel is utilized in a novel French brake for motor cars. A bevel wheel is loosely mounted on the shaft between the engine and the gear box and can be clutched to the shaft as desired. The bevel wheel meshes with a pinion having attached a fan, or paddle. tel of latitude, and Prof. Albrecht of ing the brake the paddle is set in mo-Potsdam has now completed a diation, and the resistance of the water gram of the pole's wanderings for ten exerts a braking effect that is conyears. Up to the end of 1899 the mean siderable at high speeds, decreasing position had been circled around eight with lower rates.

NOTES OF SCIENCE AND INVEN-TION.

France is forest land. A ton of ice will cool about 28,000 pounds of water one degree.

A recent estimate placed the population of the world at 1,467,000,000. British postoffices handle 15,000,000 letters and 250,000 telegrams a day. Nearly ouc-fifth of the deaths in

More paper is made in Holyoke, Mass., than in any other city in the world

is going to waste in the waterfails of reliable lightning arrester, one that Iceland. Although it weighs but half a pound you can operate from near the teleNEW NEWS OF YESTERDAY by E. J. Edwards

Story of Grant's Opponent

Horatio Seymour's Practical Political Lesson to Chauncey M. Depew When Latter Was Secretary of State of New York.

Democratic party, in 1868, to run against General Grant for president of the United States, that I received from him what I have often regarded as the most practical political lesson that was ever taught me," said Senator Chauncey M. Depew at a time when the discussion turned upon political leadership and political leaders of yesterday.

"Mr. Seymour had been elected governor of New York in 1862-he had aiso filled that office ten years before -and in the election of '63 I was a candidate for secretary of state. I went into the campaign very earnestly -I was only eight years out of colege, and political life looked mighty tempting to me-and the arguments that I delivered on the stump throughout the state were at times pretty well seasoned with political spice of the very hot sort.

"Well, after the campaign was over and I had found myself elected by a majority twice as large as that which Governor Seymour had received the year before, the thought occurred to me that the governor might not want to speak to me, for I had been quite personal regarding him in some of my speeches. But, to my astonishment I had not long been in office when the governor invited me to spend a few days with him at his home in Utica, promising, among other things, to take me to his farm at Deerfield, a few miles out of the city. Overjoyed at the discovery that I had not made a personal enemy of him. I immediately accepted the invitation, and arriving at his home, found him a man of wonderful personal charm, of an ideal domestic life, and a most entertaining story teller of men and events.

"We chatted for a long time, and drew of men then prominent in state sun was beginning to cast shadows

How Henry A. Wise, Then the Minis-

ter to Brazil and Later a Con-

federate General, Entertain-

ed Him at Rio Janeiro.

ter to Brazil, and later the governor

ing of the water front.

put out his hand.

trymen there; hence his daily haunt- flannel,

fords. Going up to them, Mr. Wise

"You are from the United States,"

he said. "So am I. Am I right in as-

suming that you are passengers upon

the clipper ship that I see is taking in

The two young men replied in the

nunger of the two then introducing

the other as Coone: Henry W. Hal-

leck of the United States army, "And,"

said Colonel Eadleck, indicating his

companion, "Captain William T. Sher-

nan, also of the United States army,'

adding that they had been ordered

around the Horn to duty in California.

A few hours later the two officers

who were destined to figure so promi-

nently to the world's greatest civil

war, were received at the American

egation with true Vicgisia cordiality

When dinner was appounced, Minister

Wise arose and in his very heat mon-

ner applegized for the apavoidable, ul-

sence of Mrs. Wise, who, he explained,

"Graft" for Janitors.

Mayor Caynor of New York city

she holds that "all hencet folk

would find Vienna a city after his

own heart. The Viennese are subject

to a form of import unknown in

America, the "sperrge'd," or door-

you have to pay to go out and pay

to come in. The jar'tors, or "house

masters," as the Viennese call them.

draw handsome incomes from this

other respects strongly object to pay-

Retort Sarcastic.

He (crossly)-How did this fire

She (suave)-I suppose by way of

should be in bod before midright

stores at the pler yender?"

"You have begun a political career,' he said. 'Well, in my opinion, you have many qualities for a successful career of that sort. You have some gift of public speaking, and you know how to approach tactfully. But "It was just four years before Hora- if you were to ask my advice, I should do Seymour was nominated by the tell you emphatically not to go into politics, but to stick to your profession. The law always offers a good field to the ambitious young man.'

"For a moment he looked at me furtively, to see how I was taking his advice, and then continued:

"'But if you insist upon a political career, I have just one piece of advice for you. Never read an opposition newspaper, never read a personal or political attack upon yourself or your party, never listen to anyone who brings you a report of that kind; read your own party journals, read plenty of history, study the careers of great

political leaders of the past. This plan I have followed for over twenty years, and to it I attribute whatever success I have had in politics, as well as peace of mind, even when I have been most violently attacked.'

"Again the governor glanced fur tively at me, then, looking at his watch, guessed it was time to return to Utica. He summoned the farm wagon, and it clattered up with the tools in it still untouched. We moust ed the board seat, and, like a true rustic, the governor drove back to the city. And as I sat bouncing up and down beside him and thought of that untouched lot of farm tools jangling behind us, I could not help saying to

'Governor Seymour, no matter what you say, you do not owe all of your success in politics to the fact that you never read opposition newspapers, or paid any heed whatever to personal or political attacks upon

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Dirge Carl Schurz Played

Rendered "The Heart Bowed Down" After Horace Greeley Was Nominated by the Liberal Republican Convention in 1872.

One of the men who took a very tion prominent part in the organization of the famous Liberal Republican party movement of the early seventies. which instantly went to pieces follow ing Greeley's defeat for president by General Grant, running for re-election in 1872, was the late Samuel Bowles, for more than thirty years prior to his death in 1878 a powerful editorial influence throughout the country. Allied the Liberal Republican party were three other famous editors, the late Murat Halstead, Henry Watterson and the late Carl Schurz, then United States senator from Missouri,

These four men were prominent members of the national convention many a vivid word picture my host of the Liberal Republicans, held in Cincinnati in 1872. But not one of and national politics. Finally, as the them had planned for Mr. Greeley's nomination. Their candidate was from the west, he began to speak Charles Francis Adams of Boston. Yet, brilliant editors though they were,

the meal itself, which was protracted

by the good time the diners were hav-

ing, the host occasionally, excused

himself in order to inquire about Mrs.

Wise, and left the dining room, re-

turning each time after a short in-

Thus the evening had worn away

Marching up to the table, the wo-

appearance at dinner and happily ex-

plained that it was a boy. Of course,

the youngster's health was toasted

then and there in approved tiyle by

the two representatives of the United

Lieutenant John S. Wise of the Con-

William Tecumseh Sherman in Wash-

bered being entertained with General

very well," was the reply, "and I also

ecall the little surprise party we

"Well, General, I was that baby,"

Well," he retorted, with his eyes

characteristically advinkle, fall five

Henry A. Wise.

said Representative Wise.

he heavy weight before him.

get to say is, you don't look it."

Eighteen years later this baby, as

Incident of Sherman in 1846

On the morning of Dec. 27, 1846, terval and resuming the conversation

of Virginia, who signed John Brown's and everybody was feeling in the best

death warrant and a Confederate major of humor when there came a knock at

general, went for a stroll to the docks the dining room door. The next mo-

of Rio Janeiro. Some days before he ment it was thrown open and in walk-

had been told that an American clip- ed a physician, smiling broadly, and

per ship might make the port, and he behind him a still happier woman,

did not wish to miss his fellow coun- who carried a bundle well swathed in

On this particular morning he had man lowered her arms a bit and then

not quite reached the dock when he gently parted a portion of the flannels,

spled two keen-eyed and alert young revealing to the three diners the face

men, who here every outward sign of of a newly-born infant-and as the

being Americans and who seemed to two officers looked their astonish-

be intensely interested in the scenery ment, their host pointed to the baby

that the harbor of Rio Janeiro af, as the explanation of Mrs. Wise's non-

duced himself, saying that he was the carrying the last disputch from Gen-

ourt, and adding that he would be president of the Confederate States

deased to have the two travelers dine of America. Still another eighteen

with him. Thereupon the strangers years later, John S. Wise, as a rep-

expressed their delight at the invita- resentative in Congress from the

had."

States army.

Henry A. Wise, United States minis- where it had been left off.

they could not match in political skill some of the professional politicians in he convention, with the result that the latter got control of the convention, sidetracked Mr. Adams and brought about Mr. Greeley's nomina-

The fall following the defeat of Mr. Greeley, I visited Mr. Bowles, at his invitation, in his office in the Springfield (Mass.) Republican building. It was the first time I had met him, and I was amazed to note the facility with which he carried on all kinds of business, both editorial and that of the publication office, at the same time that he talked over earnestly the parwith him in the task of organizing ticular matter that had brought about my visit.

"Ah," exclaimed Mr. Bowles, "I am glad you were interested in our party. I hope all the young men of the country were interested in it. It was really a young man's protest against some of the excesses into which the Republican party was in danger of falling. We were defeated, but the Liberal Republican movement accomplished its

"Mr. Bowles," I said, "may I ask you one question? I have heard that immediately after the defeat of Charles Francis Adams by Mr. Greeley, Senator Carl Schurz, yourself and some ther leaders went to a hotel and that Mr. Schurz, to express his regret over Mr. Adams' defeat played-

"Yes, yes," broke in Mr. Bowles, while an amused smile swept across his features, "that is true, and here and there, I believe, some report of the incident did creep into print. But I will tell you the incident fully.

"With the convention's work over, we went back to our hotel in a very despondent mood. We foresaw that the nomination of Mr. Greeley made defeat in November inevitable, and we realized that the defeat would probably be a very sorrowful one. We went into the parlor of the suite occupied by Mr. Schurz and sat down, with the gloom about us thicker than I ever saw it before. Mr. Schurz was especially despondent; his is a very mercurial temperament, anyway, Murat Halstead was the most cheerful member of the party, and he looked a good deal as though he had just come from a dear friend's funeral. And each of us sat there communing with his own glum thoughts; we did not need to speak to let one another

know our feelings. "We had been sitting thus for a quarter of an hour, maybe, when, suddenly, Mr. Schurz sprang from his chair, hurried over to the plane, lifted the lid, sat upon the stool and began to play, as the brief report had it, the ffirmative and then Mr. Wise intro- federate army, won the distinction of familiar air of 'The Heart Bowed Hown With Grief,' from the 'Bohemian American minister at the Brazilian eral Robert E. Lee to Jefferson Davis. Girl. Then, after a little, he began to hum and then to sing the accompaniment, and, I think, some of us joined

in the humming. "I don't believe anyone could have tion and immediately accepted it, the Richmond (Va.) district, met General found a better piece of music to express our feelings at that moment. lugton and asked him if he remem- Our hearts were certainly bowed down with grief, for we had failed to nomi-Halleck in Rio Janeiro, back in 1846, nate our man, and we saw certain deby the United States minister of Bra- feat ahead. Oh, how funereal that music sounded that day! Yet now, as Oh, yes, I remember the incident I recall the incident, I cannot help smiling over the fact that Carl Schurz should have selected a comic opera tune as the one most fitting to serve as the dirge of the Liberal Republican

The old warrior critically surveyed (Copyright, 1910, by E. J. Edwards, All

Deserves Indictment. Munsterberg: A state which will not prevent what can be foreseen is

was indisposed temporarily During (Copyright, into by E. J. Edwards, All. open to indictment.

as It Did Just at the Wrong Time.

The number of things children can do to appat their parents is unlimited. No one parent's experience can be a guide for another, for each babe terrible breaks out in some unexuntil midnight and eight cents from pected place and the most their that hour until 6 a. m. This toll is progenitors can do is to console one levied every time you go through the doorway. If you post a letter

"For a small but acute mortification," said one young mother, comparing notes with some friends, "I have seldom had anything to equal source, although persons liberal in a performance of Gracie's a short time age. You know she is about ing "sperrgeld" and will hurry over four years old. This summer when Frank and I were traveling we took no nurse with us, so we always made special arrangements to have Gracie at the hotel tables with us. At many of the resorts it is practically impossible to have a table by your the people who want it.—Philadelphia self. At the first place we stopped Record.

Crasie's Inquiry Unfortunate Coming the discriminating head walter chose for us a table with a number of really delightful and cultivated people. We found that out afterward. In fact, even our first glance told us that they were charming peoplejust the kind we would have chosen ourselves, and, naturally, we hoped we should make a favorable impression. The waiter lifted Gracie into a high chair and for a moment she surveyed the table in a quiet manner that was highly satisfactory. Then, without warning, she picked up a

corner of the napkin that lay at her plate, looked at it with an expression of amazed inquiry, then held it up and asked in a loud voice: 'Mamma, what's this?"" Not Enough For All. Tommy-Pop, does the earth go

round? Tommy's Pop-Yes, my son; but it wouldn't if it was divided among all Hints For Hostess

This dinner was given by a coterie line collection of useful and ornamen-



TIMELY SUGGESTIONS for Those Planning Seasonable Entertainments

girls who gave it. The result was a

A Novel Amusement for Children.

girls. The pipe babies were taken

home as souvenirs. There were favors

MADAME MERRI

for the soap bubble contest, too.

Eanches of

At a recent party for youngsters

A Boating Dinner.

of four couples who had passed a great | tal pillows or cushions, from those for part of the summer together yachting the couch to dainty confections of doton the great lakes. The occasion was ted swiss and ribbon for the dressing In the nature of a little farewell to the table. There were also cushions filled one they called "commodore." The with pins of all sizes and with needles. table was lovely and had for the cen- There were denim cushions large ter a lake made first by the tinsmith, enough to sit on when placed on the who concocted a circle about three floor, and what girl does not adore sitfeet in circumference, which was sur-ting on the floor in front of the fire rounded with a border of ferns, vines and dream long, happy dreams of the and pond lilles. In the water two days that are yet to come? A bridesail boats and a toy launch floated as elect who heard of the affair said she natural as life, manned by cute doll thought such a downpour would be sailors. To add to the festive appear- very acceptable, so the readers who ance there was a huge Japanese um-brella over the table, from which in the way of showers may adapt this small lanterns hung from every rib; to their needs. they were lighted by electric lamps. At each place there was a tiny canoe, with a very small Jap lantern at the bow. The name of the guest was let- from "nine to eleven" they had a soap tered on the side. Wee paddles paint- bubble contest. First the hostess gave ed white were stacked bayonet fashion each child a sheet of colored crepe paat each place and held a small pail of per and a needle and thread. A bon-bons. The name flag of the boats grown-up took each pipe and quickly were around the room with the Union drew a face on the back of the bowl Jack and the Stars and Stripes. The and the children were told to make guests were asked to come in flannels dolls of them. A couple of prizes were and it was just the Jolliest kind of a offered and it was surprising what attime. The menu was as nautical as the tractive creations were turned out. market could afford, beginning with The boys did just about as well as the oysters, fish, lobster salad, etc.

A Wild Aster Luncheon. The lovely wild aster furnished the key note to one of the prettiest luncheons I ever attended. This 'dainty flower is very common, and really it is very beautiful. With it always comes the golden rod, as they grow usually in close proximity. For a table centerplece there was a low green pottery bowl containing a flower holder, so that the blossoms branched out in a charming manner. The doilies were white, with finger bowl and tumbler doilies having embroidered designs in lavender. First we had iced grape juice in tall glasses resting on iolites of grape leaves. Then there was the usual luncheon menu with a delicious grape juice sherbet for dessert, decorated with candied violet eaves, the plates set in a wreath of asters. The rooms were lavishly decorated with golden rod, and the com-

A Pillow Shower. This was not given for a bride, but

orilliant yellow was very effective,

The low lying effect in hats still revails Everything tends to smaller coif-Shawl collars are still a feature of Egyptian embroideries are in high New handbags are perfectly square. The banded-in effects are even seen n coats.

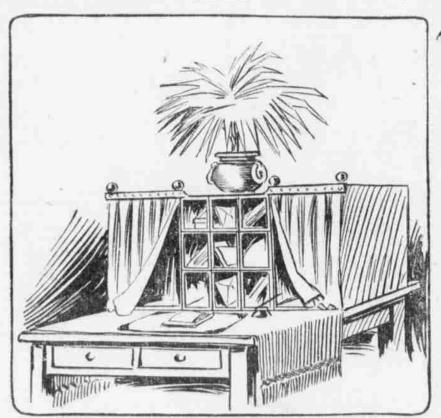
The badger aigrette is in high favor and is beautiful. Beaver hats with enormous rosettes of tulle are worn. pination of lavender asters and the Some of the richest opera cloaks

have kimono sleeves. Metallic, beaded and Persian effects are popular in lacedom.

Large wings are in demand for tailwere going away ored and semi-dress hats.

to school. To furnish their joint sit- The chemille dot is going to have ting room was the idea of the home another inning in veilings.

Useful Writing Table



ing a rough but useful kind of either painted or stained. writing table-for the room, per made at a very small cost.

It consists of two strong wooden boxes or packing cases placed on across the front part of the table, either side of one end of a table. The and here a blotting pad, pens, ink. lids have been removed and curtains etc., may find a place. On the top of bung in their places, fastened on to the pigeonholes a fern in a pot, with the upper edges of the boxes with perhaps photographs or vases of ornamental braid and small brass flowers on either side, would add headed tails. The two boxes are greatly to the appearance of this finished off at the top with four little rough but convenient piece of furbrass balls, screwed into the corners, niture.

VERY good scheme for construct- and the exterior of the cases can be

The pigeon-holes in the center conhaps, that is set aside for carpentering sist of nine cigar boxes. One end of and other amusements—is shown in each has been removed, and they our sketch. It may be quickly ar are fitted together in the manner ranged and easily taken down again, shown. Small labels can be affixedwhen not required, and it can be at the center of the upper edge of each box to indicate its contents. There is a narrow cloth arranged

Lace Watch Fob, They are very dainty.

They are also new and a charming djunct to the light frock,

home. For this remnants of Irish or Cluny nsertion may be utilized.

The strips of insertion are folded over the gold or brass catch, which may be bought for fobs and the end is pointed and finished with a white silk tassel. The girl with a military friend from

whom she may beg souvenirs might substitute for the white tassel one of not get shoes exactly to fit her exgood strands such as is worn on a cept when made to order, should get sword.

Thin lace fobs are lined with white or colored ribbon.

For Low Cut Frocks. Jewelry simple enough for a young

rhinestones or fresh water pearls. Entire strings of amethyst, topaz, amber or carved sandalwood beads are pretty for a school girl. If the throat is The girl who is deft with her fingers | rather long and just a bit too slender should be able to make one easily at she may adopt a neckband of black velvet ribbon with silver, gold, rhinestones or "jeweled" slides and clasps.

Loose Shoes.

Quite as bad as too tight shoes against which we are always warned. are too loose ones; they cause corns and bunious and often produce flat. tening of the arches. The woman with the peculiarly shaped foot, who canthem a little too long rather than a little too wide; it is the lesser of two evils.

A Velled Gown.

Rather effective and equally unusual

panes; they admit light and have the 1894. appearance and effect of frosted glass, but look much more ornamental. Lightning Arrester.

can be, and are, used for window the states for iron production since Has your telephone got a thoroughly

opening tax. They all live in flats and the street entrance is invariably Nearly one-fifth of the area of bolted at ten o'clock each night. When the bolts are drawn persons passing in or out must pay four cents

a species of cyster whose shell consists of a pair of roughly circular England occur in public institutions. plates, about six inches in diameter. These plates are thin and white. They Alabama has held third place among

> a costly dinner to save four cents. Something like 300,000 horsepower

manage to go out? phone, disconnecting it from the line a female herring will lay 45,000 ages the fire escape.

Made a Bad Impression

another.

rirl to wear with her Dutch or square is the gown of two-toned silk veiled necked frocks is in the shape of la with chiffon or other shimmering mate-Valliere chains of platinum or ster- rial. The combination is intensified ling silver. They have pendants em- if the under dress is itself trimmed bellished with a repousse design, a with hand-work or done in the Persian chased pattern or an incrustation of colors or metallic threads.