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### The Outstanding Inventions Of the Past Eighty Years

(The N.Y. Times)

1852—Elisha Gray Otis invents the on the automobile problem and turns

building use.

1853—Gintl, an Austrian technician, shows how two messages can be sent over a single telegraph wire (duplex cial.

1887—Tolbert Lanston patents the

gas store.

1856—Sir Henry Bessemer devises the process for making Bessemer 1860-Dr. Antonio Pacinotti con-

ceives the first continuous-current dy- first specimens are exhibited in 1898

ceives the first continuous-current dynamo but does nothing with it. It is independently re-invented by the Belgian, Z. T. Gramme (1870-1872).

1861—Coleman Sellers of Philadelphia patents and demonstrates the first motion-picture machine of the modern type. Edison brings out the commercial apparatus in 1893. Will commercial apparatus in 1893. Will patent granted to Carry J. Everson of tive furnace. This, in the hands of Denver, Col. (1886).
two Frenchmen, Pierre and Emile 1900—Heroult devises his furnace

bearth steel (1864).

1865—William Bullock of Philadel-1865—William Bullock of Philadel-phla builds the first press to print from a continuous roll or web of paper. 1867—Christopher L. Sholes invents biles and other machines possible. the modern typewriter. Perfected in

1868-George Westinghouse demon-

strates his airbrake.

1871-Charles Goodyear Jr. invents

quadruplex telegraph, which sends 1926-J. L. Baird four messages over a single wire. Sir images over a wire. William Thompson (afterward Lord Kelvin) devises the syphon recorder. which becomes indispensable in writ-

ing down cable messages. 1876-Alexander Graham Bell and Elisha Gray independently invent the telephone. Dr. N. A. Otto, of Cologne, Germany, invents the four-cycle internal-combustion engine now generally five miles an hour?" 1877-Thomas A. Edison demon-

strates his phonograph.

1879—Thomas A. Edison produces "Now, sir," said the witness, "it was quite that speed."

1879—Thomas A. Edison produces "Now, sir," said the chairman, the first practical incandescent election would it be possible for you to tell tric lamp.

tric lamp.

1884—Sir Charles A. Parsons receives the first patent for his steam. The witness gazed in astonishment turbine. The modern troller care at the challenge. turbine. The modern trolley car appears. Van Depoele invents the trolley wheel and Frank L. Sprague the thing," he said. "But as he was multiple-unit system of control. Got. travelling so fast I wasn't able to the thing of the travelling so fast I wasn't able to the travelling so fast Pact gasoline engine of today and in that he had a bowler 'at on and a received a bicycle with it. Thus scart." the automobile begins. Carl Benz of

# Moss GOLD MINES

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elevator with autogratic graking me-chanism, later developed for office and ut his first gasoline vehicle.

1886—Ottmar Mergenthaler perfects his Enctype machine. Hall produces

1887-Tolbert Lanston patents the 1851—Henry D. Stone and Frederick monotype. The Rev. Hannibal Good-W. Howe perfect the turret lathe so win patents the celiuloid film. George that a number of tools may cut metal Eastman independently works out the mechanically. The general idea of the same principle. The induction motor

turret lathe geer back to Stephen effich (1845).

1855—Robert Wilhelm von Bunsen lavents the burner now used in every gas stove.

1855—Robert Wilhelm von Bunsen lavents the burner now used in every gas stove. 1890-Dr. Carl Auer von Welsbach produces his mantle burner.

1893-Rudolf Diesel publishes a des cription of his proposed engine. The

helm Siemens invents the regeneral patent granted to Carry J. Everson of

Martin, is applied in making open- for producing steel electrically.
bearth steel (1864).

1901—Frederick W. Taylor and Maunsel White develop the modern

trates his airbrake.

1869—J. H. Greathead designs the 1903—The Wright brothers produce modern shield used in tunneling under a motor-driven airplane and fly it sucwater. 1870—Sir William Siemens invents mar Poulsen and Reginald Fessenden the electric furnace for melting from independently devise successful ex-

perimental radio telephones. 1906-Dr. Lee De Fores: invents the the welt-sheemaking machine. vacuum tube now indisper 1874—Thomas A. Edison devises the electrical communication. vacuum tube now indispensable in all 1926-J. L. Baird sends recognizable

### All He Noticed

The usual crop of motoring cases

was before the magistrates...
"Is it a fact," said the chairman of five miles an hour?' "Yes, your lordship,' said the wit-

## Unsuitable

Mrs. Sniffens was interviewing a young man with a view to engaging him as her chauseur.
"I must tell you just the type of

man I want," she commenced. you must tell me if you fit the descrip-"Right, ma'am," replied the applic

ant. "I'll tell you."

"The man I engage must be strong straight, and, above all," said Mrs. Sniffens, "he must be sharp and as tough as steel."

The applicant shook his head.
"Sorry, ma'am, I won't do," he replied. What you want is driver, not a motor-driver."

Certain insects, including ants and bees, have a remarkable power of adapting themselves to their environment. In this respect some scien tists regard them as superior to

### When Comets Strike the Earth

By DR. H. H. SHELDON

In Science and Invention Thousands of years ago the animals which inhabited the earth were stopped in their tracks; birds went flying crazily to sheiter; man, if he existed at that time, fell to his knees and prayer to whatever gods were then popular. The earth shook and swayed beneath their feet. For days they did not dare to venture forth from their shelter. And then, only because the need for food made it imperative. The earth had re-

to the origin of this strange crater, can be form among them that it was the consistent of the earth with a meteor, and again, that it was formed by eroslon. These theories have been distanced by the consistent today.

We are quite sure that the

imaginable explosions follow. Water, in the saturated rocks, has been turned to steam by the tremendous heat caused by the impact from this giant missile. Dust cloud follows dust cloud, until it seems that the very earth is being rended apart, for miles.

Hours after, when winds have cleared the atmosphere, there is a new row of hills visible at a distance. On going close they are found to have been formed by the dust which was heaped up around the center of disturbance. They form a closed circle, and the whole resem bles a huge arena formed to stage the world's most speciaguar drams.

Increasing in brilliancy as it reached the eathern horizon the meteor illuminated the darkened sky and against its radiance, the white dots of stars paled and faded together from the heavens. Startled Manhattanites breathed easier when the first special description of sky.

There would be no reason for great surprise if a meteor even larger than that which struck in Arizona years ago should strike tomorrow, or even inthe next hour after this is read. It is one of the chances we must take.

Geologists estimate that the contractions are activated by two forces always at hand in a submarine—man power and water power.

Deri Found in Sircleton.

Of Freduction Angus, Nob.—Buried becath the first found in Sircleton.

Of Freduction Angus, Nob.—Buried becath the Nobraska plains 250,000 years ago found to have been formed by the dust which was heaped up around the center of disturbance. They form a closed circle, and the whole resem bles a huge arena formed to stage the world's most speciaguar drams.

Geologists estimate that the castern horizon the meteor illuminated the darkened sky and against its radiance, the white dots of stars paled and faded together from the heavens. Startled Manhattanics breathed casier when the first paled together from the heavens. Startled Manhattanics breathed casier when the first paled together from the heavens.

Of Freduction Manhattanics breathed together from the heavens that hand in a submarine—man powe bles a huge arena formed to stage the world's most spectacular drama.

destroyed by the impact. were of a resistant nature. | would create an inte But whether or not the meteor disastrous experience.

was wholly of iron is open to question. The Barringer theory is to the effect that it was composed of the effect that it was composed of the root bound to. gether. These formed the immense cluster which made up the meteor. If any stone had been present in the cluster it would have been ground to powder, as if in a ball-mill, and would have been separated from the comet or meteor. There are other theories, one of them, quite to the centrary, that the iron nodules must have been bound together by rocks, eise small surrounding craters would have been produced by pieces from the main body by the friction with the earth's atmosphere. This rock coating might have been powdered

peculiar shape. In Arizona, was a giant crater, 4,660 feet in diameter, surrounded by a ragged land formation, resembling a wall, about 120 feet high. It looked a good deal like one of the huge craters so evident on the surface of the moon, when viewed through a telescope. During recent years this crater has been the subject of much investigation. It has been known by various names, the most recent, The Barringer Crater, as a mark of respect to the Barringer Crater, as a mark of respect to the Barringers, father and son who, carried on such prolonged moon was hot enough to have been listing the distinct the submarine is put onto of the submarine in the submarine in the submarine submarine such as the submarine submarine submarine submarine submarine submarine below. spect to the Barringers, father and ment, pernaps at a time when the son who, carried on such prolonged moon was hot enough to have been somewhat plastic. Craters almost exactly resembling those of the moon was the comment of the moon of the moon of the moon in can be formed by dropping stones in soft mud. A comparatively small stone will make a very large crater,

sion. These theories have been a most awe-inspiring sight.

Imagine streaking ont of the sky.

We are quite sure that the Arizona Crater is actually due to a meteor. Is one likely to strike the earth sight terrific velocity, or possibly by collision with a comet. It must have been a most awe-inspiring sight.

Imagine streaking out of the sky. Imagine, streaking out of the sky, a huge mass of material, perhaps four hundred feet in diameter, and trailing behind it a long tail of white hot matter, burned by the heat of friction with the air! Picture this huge white-het ball striking the earth with a thunderous impact. Dust from powdered rocks fills the atmosphere, while the earth fairly atmosphere, while the earth fairly stops in its tracks, and shivers! Unsimaginable explosions follow. Watering the saturated rocks, has been it is, must be in the affirmative. In a news item in the New York Times of last January an item states "The huge red ball, with a shower of the moon as it reached its yellow and red tail was describted as being approximately twenty times the diameter of the ball, and increasing in brilliancy as it reached the eastern horizon the meteor illuminated the darkened sky and,

the world's most spectacular drama. Nodules of iron, perhaps still hot, are found for miles around. It is these which, centuries later, form the major clue to what took place at this point of the earth's surface.

Just what became of the comet has puzzled geologists. Extensive borlings proved that it had not been of surface, and the conclusion arrived at the style of sufficient size to give the appearance of the conclusion arrived at the sky any evening at the rate of seven or eight per hour. One must tons of prehistoric Indians who have the the tot twenty million meteors everyday, and that as many as a trillion strike the sun the farm of Ross Brooks, negligible dimensions, mere dust southwest of here. The shoulder blade alone measured nearly five feet they strike our atmosphere. Meteors long and three feet wide. The Following deep beneath the floor of the carter, and the conclusion arrived at the sky any evening at the rate of southwest of here. The shoulder blade alone measured nearly five feet and they strike our atmosphere. Meteors long and three feet wide. The Following the sky any evening at the rate of southwest of here. The shoulder blade alone measured nearly five feet and they strike our atmosphere. Meteors long and three feet wide. The Following the sky any evening at the rate of southwest of here. The shoulder blade alone measured nearly five feet and they strike our atmosphere. Meteors long and three feet wide. The Following the sky any evening at the rate of southwest of here. The shoulder blade alone measured nearly five feet and they strike our atmosphere. Meteors long and three feet wide. The Following the sky and the sky and that as the sum of the giant beasts of interior hundred the giant beasts of int crater, and the conclusion arrived at is the sky any evening at the rate of seven or eight per hour. One must be away from city lights to encounter this number. On the average, there are perhaps, as many as a huntor, calculations indicate that it dred every year of sufficient size to reach the earth without having hear. fron, calculations indicate that it dred every year of sufficient size to may have been about 4,000 feet in reach the earth without having been biles and other machines possible.

1902—Professor Arthur Korn of Germany makes the first long-distance experiment in transmitting photographs by wire.

1903—The Wright brothers produce a motor-driven airplane and fly it successfully at Kitty-Hawk, N.C. Valde tender and we been about 4,000 feet in diameter, and weighed some ten millions. Only a few tons of iron may weigh anywhere from a few pounds to as much as seventy tons, the weight of the largest meleor ever dizes when exposed to the air. That is why so few meteors are found after they have been seen to fall.

Cessfully at Kitty-Hawk, N.C. Valde the iron nolules, of which several from possible to the arch without having been about 4,000 feet in reach the earth without having been about 4,000 feet in reach the earth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the earth without having been about 4,000 feet in reach the earth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having been about 4,000 feet in reach the carth without having the cart and cart a The iron nolules, of which several from possible bombardment by large tons have been discovered around the reteors which might strike in an to be pleased?"

were of a resistant nature.

would greate as interest by large said Bray. "What grounds has he crater in Arizona, are those which even more vulnerable spot, and which "The grounds of the concertable." would create an interesting, though Homesickness Cured

# Is Feature of

Buoy Main Feature of Device Fitted With Wireless and 'Phone

inside the submarine is put on of commission.

The man in the buoy stays there until aid is received. He can report progress of the rescue and at Dr. Dollard the university reports as any time be transferred to the rescu-ing vessel. The buoy may then be lowered to the stricken submarine sion has been made so that the last man can leave as easily as the

When all have been taken from the sunken submarine it is possible to use the cables attached to the buoy to draw the submarine into shallow

water or even aid 'n raising it. Advantages claimed for the device are: location right in the submarine where it is available at instant notice; the buoy above the surface alds in locating the exact position of the sunken submarine below the waters while at the same time wireless messages may be sent; and all operations

Geologists estimate that the earth nation of prehistoric Indians who "The disintegration of family func-tions," he observes, "is undoubtedly

# They were travelling to the city

"Our village is to build a Jones. new concert-hall."
"That's news indeed," said Bray.

"That fellow Brownson." said ones. "He's fearfully delighted." "But Brownson isn't a bit musical,"

"The grounds of the concert-hal which he sold to the district council," Jones replied.



There's a long grind between entering college and the graduation exercises. The There's a long grand between entering conege and the graduation exercises. The telephone helps bridge many difficulties as the following incident shows:
"However do you get along without Horace?" asked Mrs. Sparkles who had called to console Mrs. Rathburn following the departure of her young son to boarding

school.

"John and I were certainly very anxious and would have just worried our lives."

"John and I were certainly very anxious and would have just worried our lives. In out had we not arranged for Horace to call us on the telephone twice a week. In fact Principal Chapman explained to us what an advantage it was to have students call their parents at regular intervals. "In most cases he said the charges of these calls are reversed to be paid at the

home telephone. "He said, too, that it made the students more contented and homesickness has practically disappeared."

Just another example of the important part played by the long distance telephone in family life.

# **New Submarine**

A new device for rescuing men from sunken submarines has recent-ly been invented by Herbert F. Good, of Philadelphia. The distinction between his invention and others designed to accomplish the same pur-pose is that it is built as an integral

only because the need for food made it imperative. The earth had received the worst wallop it has had since its formation. A direct hit peared from the region.

The nodules were probably rounded by the heat of the impact, or perceived man, man as we know him today, stambled upon the peculiar space.

Many thousands of years later form during their long travel before they reached the earth. The fact form the floor of the submarine and is, therefore, immediately available in case of need.

The main part of the submarine and is, therefore, immediately available in case of need.

The main part of the device consists of a buoy which operates as does an elevator. A tube reaches from the floor of the submarine to its deck and aids in carrying the buoy the tremendors impact of this giscustry what the nature of this antic projectile and wondered at its neteor was; nor can we say what of waterlight doors a man is enabled to enter the buoy from the submarine and is, therefore, immediately available in case of need.

The main part of the submarine and is, therefore, immediately available in case of need.

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The main part of the submarine and is, therefore, immediately available in case of need.

The main part of the submarine and i Modern Family Has out of the home in its trend away from self-sufficiency, a University of Chicago statistican has found, ac-

ing put into the hands of specialists Nature it makes me 'cel like a little

The man in the buoy stays there

and the men, one after another, can be sent up and taken aboard. Provievery three working women in 1929 ene was married.
"Between 1900 and 1923 the aver

the same time wrecess mesy be sent; and all operations
ated by two forces always
in a submarine—man power
r power.

Of Frinkstoric Beast
Neh—Burfel beneath the

Angus, Neb.—Buried beneath the contributions of church members in-shoulder blade of the skeleton of a dicated that at least 50 per cent. in-Should blade of the sacreton of a circular that at least 50 per tent. In-mammoth elephant that roamed the Nebraska plains 250,000 years ago er, while such practices as saying was found by excavators a Folsom-grace at meals declined.

together.
"Heard the latest news?" "Who told you?"

### smart Alcek shook his head. "What, only a little, sir?" he spoke up. "It makes me feel like a lot. Anyway, when I'm in the country I eat like a horse." clusion, however, is that this trend does not necessarily mean the Jecline of the family, but results in an ex-

grub.

you expect much

from reading these arts. The cup test of Red Rose

RED ROSE TEA

2 CHOICE BLENDS-Red Label & Orange Pekoe

will not disappoint.

Wide Interests

economic activity of the family, from the profess tending the furnace to planning the turnl history.

Chicago.-it is not only the laun-

centages to show that almost every

interior decoration, is gradually be-

outside the home, as well as educa-tion, religious training and recrea-

tional and other functions. His con-

age attendance of children in public

schools increased 100 per cent. and expenditures for public schools in-

creased 4.1 times as fast as did the

number of families. Teachers are taking children away from their par-

ents for longer periods and at ten

derer ages.

"Between 1922 and 1927 the num-

ber of trained workers in urban re

"The was of certain functions by the family need not mean its de

cline, however. It will rather offer

integration," Dr. Dollard declares

accompanied by widened interests.

A Riddle of the Thames At windows that from Westminster

Tower.

hour,)\_

appeared,

there?

fair,-

they go?

southward to the Lollard's

sat, my lovely friend. A blur

Of gilded mist,-('twas morn's first

Made vague the world; and in the

Shivered the half-awakened stream.

Through tinted vapor looming large,

She gazed where many a laden barge

Like some dim-moving saurian show-

And 'midst them, lo! two swans

Two stately swans! What did they

Whence came they? Whither would

Think of them,—things so faultless

Mid the black shipping down below!

In through the rose and gold they

And melted in the morn at last.

Ah, can it be, that they had come, Where Thames in sullied glory flow Fugitive rebels, tired of son Secluded lake's ornate repose,

Eager to taste the life that pours

We ne'er shall know: our wonder No barren certitude shall mar.

They left behind them, as they went A dream than knowledge ample

-William Watson, in "Collected

Into some visionary day.

Creamed Soups!

ST. CHARLES MILK Borden Co. Limited St.C. 115 George St., Toronto

Send me a free copy of your new ook book.

And proudly up the river steered.

Imbiguous shapes obscurely rode.

number of families.

follows:

cording to a recent report. By comparing figures for 1900 and for 1930, Dr. John Dollard offers per-

**BLACKHEADS** "Where formerly women remained at home, doing house and family work, with only one woman out of every seven employed outside the home, one woman in every four was a breadwinner in 1920, and out of

Smart Alcek shook his head.

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Food For Thought

The professor was lecturing on na-



### O KEEP THE Children Healthy

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25c & 75c red packages

Ask your druggist for CARTER'S IVEE PILLS

## ACIDITY FOR 10 YEARS Before he Found the Remedy

Many people endure suffering unnecessarily. This man did. If he had known ten years ago what he knows to-day, he would have been spared a great deal of suffering.

"I feel I must write a few lines in appreciation of your Kruschen Salts." I have suffered for 10 years from chronic acidity of the stomach. I tried nearly everything, until I was advised by a friend to try Kruschen, which I have taken for the last two months, and I am pleased to say I have had no return of the acidity."—W. B.

Kruschen Salts swiftly neutralises acid, takes all the torment out of it, and gently expels it from the system. And by stimulating your organs of climination to perfect regular action, Kruschen will prevent this harmful acid from ever accumulating again. After that you'll experience no more misery after meals. Kruschen will keep your inside clean and screen. Fure and invigorated blood will be sent coursing to every part of your bedy. You'll feel wonderfully enersent coursing to every part of your bedy. You'll feel wonderfully energetic and well. As healthy and bearing

d well. As healthy and hearty

as it is humanly possible to feel.



perfectly miserable.

"I took three bottles of Lydia E. Pinkham's Vegetable Com-pound and later gave birth to a fine baby boy:

"I now have five children: I always take the Vegetable Com-pound during pregnancy and is helps me. It benefits my sisters in-law too." Mrs. W. I. Zinstoo R. R. No. 2, Lakefield, Ontario

Tydia E. Pinkhains VEGETABLE COMPOUND

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