In a thousand ways, the intelligent work of brain and hand helps the farmer and enables him to supply food and clothing to the world all the more cheaply for this help. The garden is cultivated by a variety of labor-saving tools, the dairy is completely remodeled by new inventions of the most surprising kind. Among these the cream separator and the butter extractor are

THE MOST STARTLING

n their novelty. A rapidly-rotating drum, spinning around and humming with 8,000 revolutions every minute, by the mere slight difference in the specific gravity of the milk and cream, causes these to separate, and the cream falling into the other drum is quickly gathered into butter. Thus the many previous operations between the milk and its final product are done away with and in an hour from the cow the milk yields up the golden butter.

Scientific study and mechanical ingenuity

The street was a more and the street of the

Plants for Autumn.

Many of your plants will require re-potting before you take them in for the winter, writes Eben Rexford in the Ladies' Home Journal. Begin to get material ready now. You will find it a pleasant task to go into the woods and pastures with a basket and a trowel, and gather turfy matter and leaf mold from about old tamps and in the corner of the fence. And while you are getting soil together for re-potting plants this fall be sure to get more than you need for that purpose, and store it away for winter use. There will always be plants that need top dressing with fresh soil, and some will require an entire change of earth, and there will be new ones, and so a supply of potting material will come handy all the year round. Don't wait until cold weather is at hand before you begin the work of re-potting. Do it while you have warm and pleasant days, and the work will be done better than it would be in cold, raw weather. Another reason why it should be done now is: It will give your plants a chance to get established before it is time to take them into the house. If you wait until the last moment, they will not have recovered from the disturbance which their roots must undergo, and they will go into winter quarters in a condition far from what it ought to be.

the content of the state of the content to water the content to the state of the content to water the content to w region, and a large part of it, Mizon says, can be colonized by white people. Its population is largely composed of the great Fula people of the Soudan, who are farmers and mortgages belonging to various estates of which he was the legal representative, of the leads a likely to spring. At a people of the Soudan, who are farmers and cattle raisers. Mizon says Adamswa extends from the leads are population is likely to spring. At a leads of the surface of Gaundere, which was known only vague, it is a large and picturesque town, well of correspondent that criminal proceedings of the first and and any in Rear and the surface of the surf

Our bravest lessons are not learned through success, but misadventure.—[A. Bronson Alcott.

Alcott.

The grain, the smallest weight in use, was thus called from being originally the weight of a grain of wheat. A statute passed in 1266 ordained that 32 grains of wheat, taken from the middle of the ear, or head, and well dried, should make a penny-weight, 20 of which should make an ounce, while 12 ounces were to make a pound. The pound, therefore, consisted of 7,680 grains. Some with and in an hour from the cow the milk yields up the golden butter.

Scientific study and mechanical ingenuity have thus revolution zed this department of armirs, while the new has been increased. Haydon, the cow has been increased as the complete of the complete of

"Lolling up against the doorpost stood an Irishman half-seas over, and the colonel an arishman half-seas over, and the colonel shouted to him:

""Well, Pat, what sort of stuff do they sell here?"

"Shure, then

"'Shure, then, captain its foine! Look at me for eightpence!"

# That Was a Bluff.

Professor—"Robert, do you know the meaning of the word precipice or bluff?" Robert—"Fee sir."
Professor—"You may give me an example."
Robert—"I can lick you with one hand."
Professor—"Sir! What do you mean?"
Robert—"That's a bluff."

## Care of the Stove-

s parts of a stove re

There are about 50,000 muscles in an elemore prominent sits parts, little the steam-ongine
of an an it is parts, little the steam-ongine
of are considered to see the considered and the steam of the steam

# Golden Thoughts for Every Day.

Monday—

God sets a still small voice
Deep every soul within;
It guideth to the right,
And warneth us of sin.

If we that voice obey, Clearer its tones will be, Till all God's will for us Clearer than noonday we see.

Clearer than a consider that voice neglect, Fainter will be its tone; If still unheeded it Will leave us quite alone.

O grief! to be allowed
To go our own wild way;
Lord, hold Thy children back,
Lost we so madly stray.
And help us to attend
To Thy sweet voice divine;
Then in the judg ment day,
Own us, good Lord, as Thine.

Tuesday—They have defied barriers of time as of national boundaries. Chrysostom, Augustine, Savonarola, Huss, Wyckliffe, Luther, Cranmer, Whitefield, Wesley, Finney, Beecher, Bushnell—how on these and many score of other such tongues of fire have rested! How like a stream of fire, consuming the evil and enkindling the good with a noble warmth and illumination, has been the history of the church!—[Lyman Abbott.

Friday—

O weary feet I that many a mile
Have trudged along a stony way.
At last ye reach the trysting stile;
No longer fear to go astray.
The gentle bending, rustling trees
Rock the young birds within the nest,
And softly sings the quiet breeze:
"Tis time for rest!"

"Tis time for rest!"

"Ray Palmer.

be hre

"Tis time for rest l'tistime for rest!"

—Ray Palmer.

Saturday—And so our noorer bre hren and sisters, held down by those galling chains of want and toil, and ignorance and vice, and misery unspeakable; for them no philosophy, heartening or consoling, has any chord in their lives. While things are as they are the utmost that can be expected of them is the stolid patience of dumb driven cattle. Their consent to live on in their misery is because of the instinct of self preservation, and perhaps because of the social and parental instincts as well. But the latter of these two is not the power we find among educated and well coaditioned people, who have more to live for and more to leave in relation to their offspring. Nothing but the tremendous force of habit keeps these miscrable creatures in their fearful groove of unalterable wretchedness. —[Washington Gladden.

Signs of Greatness.

Gravely—"I have been examining your boy on the results of his schooling, I think I can say that he has, beyond question, the germs of greatness in him."

Wanturt—"Indeed II am delighted to hear you say so. But what was there in the examination that emphasized the conclusion you have drawn?"

Gravely—"The illegibility of his handwriting."

## BIROS, BEASTS AND FISHES.

There are about 50,000 muscles in an ele-

There are about 50,000 muscles in an elephant's trunk.

The donkey is the longest nived of our
domestic animals.

In ten years the descendants of two
rabbits will number 70,000,000.

A pet rattleanake in Florida on mitted
suicide by biting itself in the neck.

In the dreary descrits of Arabia the rosemary and lavender flourish to perfection.

Pythons are abundant in the Phillipines,
the species being indentical with that found
in Borneo.

Wasne's perfection and the secondary of the species being indentical with that found
in Borneo.

Buffalo were Countless in the Old Days.

Once an inhabitant of this continent from the Arctic slope to Mexico, and from Virginia to Oregon, and, within the memory of men yet young, roaming the plains in such numbers that it seemed that it could never be exterminated, the buffalo has now disappeared as utterly as has the bison from Europe.

The early explorers were constantly astonished by the multitudinous herds which they met with, the regularity of their movements, and the deep roads which they made in travelling from place to place. Many of the earlier references are to territory east of the Mississippi, but even within the last affecen years buffalo were to be seen on the Western plains in numbers so great that an entirely sober and truthful account seems like fable. Describing the abundance of buffalo in a certain region, an Indian once said to me, in the expressive sign language of which all old frontiersmen have some knowledge, "The country was one robe."

Much has been written about their enormous abundance in the old days, but I have never read anything that I thought an exaggeration of their numbers as I have seen them. Only one who has actually spont months in travelling among them in those old days can credit the stories told about them. Once, in the country between the Platte and Republican Rivers, I saw a closely massed herd of buffalo so vast that I dare not hazzard a guess as to its numbers; and in later years I have travelled for weeks at a time, in northern Montana, without ever being out of sight of buffalo.—[September Scribner.

# Spare the Woodpecker.

have rested! How like a stream of free consuming the evil and enkindling the good with a noble warmth and illumination, has been the history of the church!—[Lyman Abbott.

Wednesday—

A thought is but a fittle thing Than nobody can see; Yet a real joy of sorrowing That thought may come to be!

A word! O, what can well be less! And yet by every one There comes sweet peace or bitterness, and good or ill is done.

An action; all the little deeds That ripple through the day: What right or wrong from each proceeds Before they pass away!

Great God, my actions, words, and thoughts. Are all observed by Thee; May I, by Thy good Spirit taught. Live always carefully.

H. Batoman. Thursday—You may take any part in Livingstone's character and analyse is carefully, and I will challenge any man to find fault with it. His religion is a constant, earnest, sincere practice. It is neither demonstrative nor loud, but manifests itself in a quiet, practical way, and is always at work. In him religion exhibits its loveliest features; it governs his conduct not only towards his servants, but towards the natives, the bigoted Mahomedans, and all who come in contact with him. Without it, Livingstone, with his ardent temperament, his enthusiaem, his high spirit and courage, must have become uncompanionable and a hard master. Religion has tamed him and made him a Christian gentleman, the most companionable of men, and the most indulgent of m sters.—[H. M. Stanley.

Friday—

O weary feet! that many a mile Have trudged along a stony way.

Various Modes of Burial.

The Mahometans always, whether in their own country or in one of adoption, bury without coffin or casket of any kind. During the time of the old Roman Empire the dead bodies of all except suicides were burned. The Greeks sometimes buried their dead in the ground, but more generally cremated them in imitation of the Romans. In India, up to w thin the last few years, the wife, either according to her wishes or otherwise, was cremated on the same funeral pyre that converted her dead husband's remains to ashes. When a child dies in Greenland the natives bury a live dog with it, the dog to be used by the child as a guide to the other world. When questioned in regard to this peculiar superstition they will only answer—"A dog can find his way anywhere." The natives of Australia the the hands of their dead together and pull out their nails; this is for fear that the corpse may scratch its way out of the grave and become a vampire. The prim tive Russians place a certificate of character in the dead person's hands, which is to be given to St. Peter at the gates of Heaven.

Stab Ends of Thought.

# Stub Ends of Thought-

Women under 20 and over 70 tell them

Men and women in love imagine them-selves in pretty much everything elso that is unrestful.

Sorrow adds beauty to the character when taken in broken doses.

A widow's weeds may blossom as the

Tears are becoming to some eyes.
Truth has more enemies than friends.
The best cooks are not always the sweetest-tempered wives.
The man who thinks only of No. 1 forgets how many millions and millions there are between that and invanity.