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The Letter, I read it by the sea, love, As the stately ships went by ; When the birds, with snowy bosoms Flew morrily o'er the sky ; And the spirit you touched glowed warmen To the ships on the sunny sea ; And caroled the wild birds sweeter

From the thoughts you had sent to me. I read it in the dale, love, In the midst of a summer dream When your voice seemed strangely mingled With the sweet, melodious stream ; And the far-off children's laughter, And the sound of the maidens' glee, Did seem to my heart the purer

From the thoughts you had sent to me. I read it in the eve, love, When the meadows and woods were still; When the murmuring sea broke softer, And the mist slept calm on the hill : When the nightingale sang 'mid the tassels Of the bright laburnum-tree, And his song to my heart was dearer From the thoughts you had sent to me.

I've kept it in my heart, love, As a lower within a shrine ; And it tills my life with beauty Of a love that is half divine : And oft, in the midst of its presence. I dare not think what would be Were my soul to be sundered forever From the thoughts you have sent unto me.

THE GALLANT TRAPPER.

Eben Gardner was a Minnesota trapper and hunter-a mighty man in his field and vocation. His cabin was far away out in the woods, and stood by itself, occupied by himself and his little family. That his wife did not like to lead this

desolate life was certain. "It's what I never expected," she said, "when I mar-ried, to be dragged out here, like goods and cluttels, among rattlesnakes and wild Injuns. I can't sleep in my bed at night for thinking the red-skins are crawing through the bush."

Red-skins ! pooh !" exclaimed Eben, polishing away at his gun-barrel with the s'eeve of his hunting-shirt. "There husn't been an Injun raid in these parts for more than five years, and ain't likely to be, with a fort only twenty miles off full of government troops to protect the settlers. You may sleep like the dead for all the red-skins will do to you."

They had been talking that day about young hunter named Eph, of whom Eben spoke highly, but whom the good wife thought too much like a savage.

While they were speaking the sharp report of a rifle rang through the woods, at the same moment the graceful, lithe form of the young trapper leaped like a cat out of the woods. He held his cocked piece in his hand. His huntingshirt of buckskin, with gayly dyed frin-ges, was open at the throat; his head was bare, his eyes glittered, and his bronzed face was strangely pale.

11 Ends Eben sprang to his feet.

what they did to poor Mary Tuttle. Oh, don't let them scalp me, Eph ! Put your rifle to my head and blow my brains out. anything else handy. I am a coward, or I could do it myself, for there is a sharp knife hidden here in could concentrate his strength on the

for there is a sharp knife hidden here in the bosom of my dress. Promise me, Eph, and I'll reward you if God spares scious of a terrible ache somewhere. But presently he saw a patch of the cabin Eph's face was portentously pale. He gave her an indescribable look, and floor with sunlight lying on it, and knew, though he did not see them, that a group of men were gathered about the

A dark living stream came flowing out of the bushes and undergrowth. All door. ing her grandfather something out of a bowl. Where was he? Who was supthat could be seen were waving plumes, and the glow of war-paint, and gleaning murderous eyes, and the shining gun-barrels held before them ready for a porting him? With this thought Eph feebly directed his gaze upward until it

rested on Bessie's face. She was holding his head in her lap, and he saw that a deadly spring. "The bloody cusses have drove along all the cows and horses they could gob-ble," muttered Eben, "and hoppled them on the edge of the woods. They expect to find only are a billion. little pearly tear was stealing down her cheek. In an electric flash all the past came back to him. expect to find only women and children and the old man at home. They don't motioned out the words rather than spoke, for his tongue and lips seemed

dream of the warm welcome we've got ready for them, Eph. There, now they begin to smell mischief ; the shanty looks too quiet. Who's that big brawny fellow erawling ahead ?" Whispered Eph, Upin Dine Tree," whispered Eph, "Big Pine-Tree," whispered Eph. with his eye to the opening. "He and his braves killed every settler in Sloeum Valley last year. Don't fire yet; hay low. Let 'em creep up closer. We must pick There were other question's in Eph's eyes, to which he could not give voice. "The soldiers came from the fort,"

our men every time." There was a blaze, a sharp report, a Bessie went on, "just as the fire got un-der way and was about to smother us all. cloud of smoke; then a yell went up They drove off the red-skins and are now chasing them through the woods, only a few that staid to help father put out the flames. But you saved us, Eph, , when you held them back from breaking from the savages, as they sprang to their feet, that shook the tasseled corn like a "How many bit the dust that time,

"Let me load for you," whispered anny. "I'm your other arm. Take Hanny. the old gun ; it won't kick this time.' Eben looked over his shoulder, and

was Bessie crouching on the floor behind him "Go comfort your grandfather," said

great wind.

Eph 7

he, sternly. The old man sat gazing with pale vacant face and bewildered eyes at the scene before him. A low monotonous moan, like the cry of some animal in pain, issued from his lips. Bessie dragged herself to him, put her arms round his neck, and drew his head down on her bosom. Mrs. Gardner had hung a great watthe of water over the first in great cence of the savage. "Do you want me to live?" he said, at last. And then he added, slowly, "I

kettle of water over the fire ; it was all she could do. She crept to the bed on her knees, with her apron over her head, and began rocking back and forth in the a bear's cub in the bush." A painful crimson tide swept over Bessie's neck and cheek. "Eph," said she, "I was a foolish, silly girl, not and began rocking back and form in the intensity of silent prayer. The yells and hoots and howls of the savages were like the beating of storm-waves on the shore. Every shot from inside of the little fortress told fatally. worthy of you. This day has taught me the value of a brave, true man." Then whisper, "You are dearer to me than life, and I must have been loving you all

the time." Eph's face was transfigured. upon the enemy. There were wild wailings and death-songs from a band chosen stretched out his hand. Bessie underto carry off the dead and wounded. "Only two rounds left," whispered stood the motion, and clasped it in hers. Eph, wiping away the powder and smoke Then, with a great sense of weakness from his eyes. The decisive moment of the assault

had come. There was a scrambling of feet up the side of the cabin, and the was uninjured. father; only a little shook up?" sound of dull, heavy blows on the roof, ne smiled va

THE OIL QUESTION. the chest ; tear up a shirt if there isn't

Hanny was by the fire-place feed-

It was a minute or two before Eph Its Importance to the United States---In-ould concentrate his strength on the teresting Statistics.

Among the important developments of the natural resources of the United States, the discovery of petroleum must be regarded as one of considerable value ; the domestic trade in the article is very large, and it is a most valuable addition to our imports. Petroleum was known to the Seneca Indians in the last century, having been found by them upon Oil creek, a branch of the Alleghany; but its existence in any vast amount was not known until 1845, when a spring was "struck" while boring for salt near Tarentum, on the Alleghany river, sev-eral miles above Pittsburgh. Little, however, was done towards its utilization until 1857, when experiments were made "What has happened to me?" He which proved that the constituents of petroleum were the same as the artificial carbon oil, and its purification was attempted by the same process as was applied to it.

The success which attended the bor-The success which attended the bor-ing for oil in Pennsylvania, says an ex-change, was remarkable, and before the close of the year 1860 the number of wells and borings were estimated at about 2,000. In 1859 a fountain was reached on Oil creek at a depth of 71 feet, which gave a daily product of 400 gallons. Of the large wells, 74 were wilding in 1860, by the sid of aurops yielding in 1860, by the aid of pumps, over 1,100 barrels daily of crude oil. Subsequently wells were sunk to the depth of 500 or 600 feet, and so profuse was the flow that some of the single wells would produce 3,000 gallons daily, when you herd them back from breaking down the door. Not any of us are hurt. Father didn't get a scratch. Oh, what a miserable coward I was! I could do nothing to help; but you, Eph—you would have given your life to save us." Bessie's face quivered, and she covered it will be traditional from the best sources of the sub-traditional from the second source of the s brought to market by the Sunbury and it with her trembling hands. Eph never Erie railway alone ; and the quantity shipped by all routes was about 500,000 removed from her his eyes. His gaze was profound, searching, inscrutable, going down into the very depths of her being. With all his impetuosity, there was in him something of the deep retibarrels. From 1859 to 1873 inclusive, the product of petroleum in Western Pennsylvania was 53,512,295 barrels. There are refineries in Philadelphia, Pittsburgh, the oil regions, Cleveland, Ohio, the city of New York, Buffalo, and other places in New York State. The estimated capacity of those in Pennsyldon't want to live any longer after what you told me the other day. You couldn't like an ignorant fellow brought up like per day. The foreign imports from Philadelphia

of refined, crude, naphtha and benzine were, in 1871, 55,901,590 gallons; in 1872, 56,356,068 gallons, and in 1873, the value of a brave, true man." Then she bent her head lower, and added, in a whisper, "You are dearer to me than life, and I must have been loving you all

and Baltimore in 1873, about two mil-lions and a half gallons each. The vast importance of this addition to the commerce of the country in exports alone in a financial point of view, coming over him, he fell asleep. Eben was examining the old man for the third or fourth time to see that he "Hearty, ain't you, e shook up?" 930,367. The aggregate value of the ex-ports for three years being \$116,237,536.

Winter Approaches.

HOWLS IN THE RING.

Advocate.

We reproduce the following timely re-marks from the *Prairie Farmer*: As Terrific Combut Between a Male and Female Rhinoceros—The Fright of the Lions and Tigers and Leopards and Bears. we write, the first snow-flakes of the sea-

son come eddying past the window. The wind bears down from the north and whips the gold and crimson leaves from Among the animals in a New York circus are a male and female rhinoceros. The female is about two-thirds the size the trees. The tender plants have withof the male, and was put into the circus ered in the frost. Though the sun may shine brightly on the morrow, all nature about a month ago. The male, a monster of strength and ugliness, is kept bears the impress of a dying season-that winter is at hand, and that the field in a pen, surrounded by iron bars, in the east end of the menagerie, and next to the four elephants. The female was conof labor of the year is over. Before the winter closes in upon us, however, there are various chores about the house, the fined until recently in the cage in which she has traveled for a number of years. barn, and the farm that snound to of tended to if one wants the reputation of being a thrifty, tidy farmer. Out in the original size so that the female might be original size so that the female might be animals was begun. The elephants were driven into one of the large dressing rooms, and the male rhinoceros was sense. See to it that all implements are properly oiled and housed. It will save driven into the elephont pen. The cage you twenty per cent. in durability, Over containing the female was drawn up, and vonder the fence is down, a stake is she was safely landed in the large pen. Then the male was driven back to his broken, or a board is off. The rails or years in their proper places. There are drains whose outlets should be seen to, or they will add tenfold to the labor of getting them in order in the properties of the seen to getting them in order in the properties of the pene boards, if upon the ground, will lose old home. He waddled in, passed the more in the course of the winter than in door, and then suddenly stopped. He

The monster paused only a moment. besides, at that time there is so much to do that you will hardly find the time to look after them at all. Perhaps there is a Then with a roar of rage he started for the intruder. She was in no mood to play the coward. She firmly braced herdrain to be made; now is a most excellent against the solid planks of the pen, self time. A new fence is to be built; now is a most excellent time to build it. The roads are in excellent condition for the and awaited the collision. The hard, horny noses of the two animals clashed. The male drew back again, and eyed his fall rains have not yet set in. It is true that the ground is rather too dry for digging post-holes or driving stakes, but unwelcome visitor. Then, his mouth foaming, with a loud roar, he rushed forward again. He struck the female the case with which hauling can be done, with his horn on the left side, cutting a and the comfort of working in the beaudeep gash, lifted her about six feet from calibre. tiful Indian summer days more than compensates for the trouble with the the ground, and nearly threw her over

the wall of the pen. hard ground. Of corn-gathering it is The fight was getting desperate, and the attendants hastened to rescue the not necessary to speak. That is a mat-ter that all farmers attend to; we are now merely mentioning some of the oftfemale. Pitchforks, wagon bars, and every weapon that was attainable reglected matters of the farm. About used upon the infuriated monster. He was held at bay for a time, and large planks were shoved through the bars to the fields, the garden, the house-yard and the barns are bits and pieces of boards and timbers that may be saved by form a fence between the beasts,

carefully collecting and piling in a well-The male made one furious dash, carprotected place. There are weeds that have gone to seed in the garden, the ried the barricade away in an instant, and again the poor female was mised yard, and along the roadside in front of yard, and along the roadside in front of the house. It would have been far bet-ter to have attended to them two weeks batants were echoed by the roar of the ago, but much good may be done now by collecting and burning them. The lions, and the fearful laugh the hyenas. The wild beasts scented blood, grape vines should be laid down and generally covered with a slight protec-tion of hay or straw. The vegetables should be gathered and carefully pitted and every cage in the great menagerie was a scene of wild excitement. The lions and the tigers, the leopards and the bears, jumped and howled and roared, and above all arose the dismal wail of the or stored in the cellar. And that same cellar—is it clean and wholesome ? If frightened elephants.

not, before packing away the winter's For over an hour the combat lasted fruit and vegetables, have it as cleanly as and the male rhinoceros, being the larger of the two, was rapidly using up the weaker female. At one time the two the parlor above. The cellar drain must also be looked after. How about the supply of fuel? Can you find a better huge beasts came together with a crash time in all the year to get in an ample supply? Get it into the woodagainst the iron bars of the pen, bending them like so many wires, and the shed or house, if you have one, and if heavy planking of the framework cracked not construct a cheap one. The wife and The beast and frothing at the mouth, and the cow was bleeding. At length, just as the male was preparing for another attack, one of the employees thrust a pitchfork into his mouth, the only vulnerable point that could be reached from the outside and with a roar of mingled pain and rage, the brute drew back, and for a few moments stood in his corner, eyeing his antagonist. Advantage was taken of There this hull in the fight, and the two were separated by a fence of planks and wagon past year. bars, which were thrust across the pen from the outside, and securely lashed to the bars. Over this was thrown a piece of canvas, and the beasts were thus shut from each other's view. It required two hours more of coaxing to get the cow back to her old cage. Notwithstanding the thickness of her hide. which is like iron, the horn of her antagonist had gored her frightfully. On the racca's capture, 20 ducats and some left side were two deep gashes, from articles of food were sent by his wife as which the blood was flowing freely. The male was uninjured, having only a slight wound back of the left ear. He ran as nimbly as a rhinoceros can run around with pen, ink and paper, told him to his pen, and seemed to glory in his write from his dictation. The letter, victory. As soon as the cow was removed he became as gentle to his keepers as ever.

NO. 44.

Items of Interest.

Boston claims to have more students of music than any other city in America.

A brass band in Virgina City, Novada, has been earnestly requested to practice exclusively in the isolated passage of a mine 600 feet under ground.

An insect inspector for every town in Massachusetts is proposed. His duty would be to examine orchards, and order the destruction of infested trees.

A Chinese servant in San Francisco, by way of revenge upon his mistress, broke with a pair of pincers a piece out of every dish in a valuable dinner set.

The saying, "He is as good a man as ever lived, but he can't keep a hotel," was original with Mat Peel, a negro minstrel, who died in Buffalo in 1859.

The highest prize in a Chinese lottery is twenty-nine cents, and the man who draws it has his name in the papers, and is looked upon as a heap of a fellow.

Men in New York State who get drunk in a saloon, and then break all the glassware in the place, cannot be made to pay the damage. The seller of the liquor under the present law, liable for all the injury done by the drinker.

A suicide in New York left the following note : "This act of self-destruction is entirely voluntary. I am brought to it by incurable disease, want of employment, utter pecuniary destitution, semi-starvation, no fuel, nor means to pay any rent.

The British Goverment is engaged in making such improvements to Cork harbor that, when finished, it will be one of the best harbors of refuge in the world. The entrance will be protected by forts armed with guns of the heaviest

A young lady and gentleman, aged respectively twelve and thirteen years, were married at Gouldtown, Mich., recently. When last seen they were quar-reling over a pound of mixed candies, and throwing out vague intimations about divorce.

"When music, heavenly maid, was young," she would have been startled, says the London *Echo*, if not absolutely frightened from the world, could she have foreseen the terrible prices her votaries would have to pay to hear the warbling of her delicious strains,

Poor young thing ! She fainted away at the washtub, and her pretty nose went kerslop into the soapsuds. Some said it was overwork ; others, however, whis-pered that her beau had peeped over the back fence and called out : "Hullo, there, Bridget, is Miss Alice at home !"

The trick that the boys played on Dr. Wheeler, at Holden, Mass., was to set fire to a load of hay upon which he was riding. It burned beautifully, the horse ran away, and, to cap the climax of fun, the doctor fell off and broke his leg. That was a memorable day for the boys.

A tailor in Harrisburg, Penn., advertises that when people "with sallow, ir-regular, and homely faces" are clad in

field, perhaps, lies a new reaper, a rake, a plow, or some of the smaller tools of the farm. These need shelter as much as the stock you feed, in an economical

what's the matter ? "The red-skins !" The young man,

throwing back the dense clusters of curly brown hair from his forehead, almos bissed the words through his blanched lips.

"Oh, the 'red-skins !" shricked Mrs. Gardner, as she caught the words in the interior of the cabin. "Be still !" said Eben, sternly ; and

he stood up and clutched his rifle

"I heard at Brashear," Eph added, bringing his words out with wonderful coolness and precision, "that the redskins were out on the war-path after plunder and scalps. I turned in my tracks. I covered every step of the way. I crept through the woods. Five miles below the Bend, at Tuttle's, they have murdered all the pale-faces and set fire to the settlement.

"And Tuttle's babies, the twinsthem pretty flaxen-haired poppets he way so proud of ?" asked Eben, in a kind of gasp.

"Brained 'em," returned Eph, laconically, "and the girl fifteen years old." Bessie uttered a fearful shrick. The

women were clinging together in a frightened group, and the old man's bewildered, half-vacant face made a pathetic background. A terribly grim look came into Eben's face.

There was further talk and preparation, for all felt that the Indians would all BOON be upon them and there was need for work now.

Eph had hastily driven the cattle and horses into the sheds. Everything was put in a state of siege. The heavy plank window-shutters were barred, and it was through the small openings of these, which made a dim twilight in the inte rior of the cabin, that the two frontiersmen proposed to repulse their assailants. mouth was drawn into a grim hard line, but there was a kind of glow about his fine dark eyes. He felt a wild joy he could but half conceal, for his op portunity had come to defend the girl he loved with the whole force of his impetuous, half-tamed nature. At least he ould die with her, and to a being like Eph that alternative was far better than quake. ving without her.

Hanny had been busy on her own line of defense. She was supple and spry as a cat. Flushed with excitement, the child's dark face was almost handsome. " What be you about, Hanny ?" asked speed.

Eben. "Getting my gun ready," said Hanny, coolly. She had rummaged out an old fowling-piece from some corner of the "You know you said yourself, cabin. father, I could make a first-rate shot. You have always been wishing for a boy. I'll be your boy, father, and stand close beside you, and we'll show the redskins some tall shooting."

"You're a trump, Hanny, a regular little brick," choked Eben, feeling a iny moving object behind them. Then lump in his throat; and he passed his hand softly over the girl's thick hair. he raised his voice in a mighty shout The soldiers ! the soldiers !" "But that old gun is no good. You shall be my other hand, and help me Deliverance was close at hand. When Eph feebly came to conscious lond. Only, child, when the firing be ness, his eyes seemed half full of blood ; gins, you must get behind my back. there was a strange whirring in his head. His limbs were of as little use to him as

"Hist !" said Eph, listening with his ad bent low. "I hear them coming head bent low. Some one was fumbling and feeling about his side with a gentle hand, and through the woods." Bessie, in the obscurity of the cabin,

flung herself down at Eph's feet.

then he heard Eben's voice. "Oh, Eph," she moaned, " you told "There may be two or three ribs me the other night you loved me, that broken ; I can't tell yet until we get him you had never loved a woman before. on to the bed ; but I know the wound If you love me still, promise that you ain't mortal. He's young, and tough as land contain will kill me before I fall into the hands a pine knot. Come, Celindy, hurry of those savages—before they do to me along; bring me some bandages out of each letter.

knew you'd take care of me, Eben. You of great thickness, just squared by the always held to your word." ax. Eben mounted the ladder to ward "Well, Celindy," to Mrs. Gardner, off the assault in that quarter as best he who had been waiting on the soldiers, could with his one arm, while, resolute giving them such supplies of food as she and rigid as a man of iron, Eph, with ad at hand, "you was right about the hatchet in hand, took up his station at red-skins, after all. I shall stick by the shanty, though. Me and the old man, the door, where the trunk of a large hemock-tree had been brought to act as a we'll stay, and Hanny too, I guess. That battering-ram. The red-skins, frenzied girl, she's worth her weight in wild-cats. by their losses, had attempted to kindle But if you feel scary about staying, you a fire under one corner of the cabin, but might go and stop a while with your sisthe ground and fuel being damp from re-

which, fortunately, was made of timbe

ter Dorcas until we get cleared up a litcent showers, it failed to ignite. tle more. I can't breathe in a thicker-There was a dense cracking and snay settled place than this. I must have lots of fresh air ; and now Γ ve fit the Indians ing and bursting asunder of the planks f the door from the terrible concussion and overcome, I've drove down the stake of the missile directed against it. for a good long spell." blows of the assailants upon the roof "The Lord has given us a great demingled with those below. It was an orgy of demoniac noises. There may liverance," said Mrs. Gardner. "' It was

in direct answer to my prayer, and you been shricks and wails from within, won't hear me complaining any more after to-day. There's nothing like look-ing death in the face to bring folks tobut they were drowned in the tempest that raged without.

At last they had succeeded in kindling gether, and make them of one heart and a slow fire under the angle of the house one mind. We'll stay and civilize towhere the wind drove the flames against gether, Eben, and the wilderness shall the wall. A suffocating smell of smoke lossom as the rose." began to creep in between the logs. Hanny had dropped her gun, and was now passing boiling water up the ladder to Eben, who, judging from the unearthly yells of the half-intoxicated tirring and sweet in the very name of

savages, was using it to good effect. Splinters from the door flew about in

"Alpine Horn," its associations are all so musical and full of the breath of the directions. It groaned in a kind of hills. What must it be to- actually hear igony. Slowly the tough plank yielded until there was an aperture large enough to admit a head-a head with a pair of it-and hear it, too, on occasions such as is described below, when the voice of the instrument takes its finest meaning. snaky, glittering, evil eyes. Eph, stand-Among the lofty mountains and elevated ng a little in the shadow, brought down valleys of Switzerland the Alpine horn his ax. It clove the skull of Big Pinehas another use besides that of sounding Free through bone and brain. Then followed the sharp report of a rifle. It was the last Eph knew. His arm dropped lax and nerveless at his side. His head fell forward a little ; he sank to his ences, and finally fell prone.

Bessie uttered a heartrending ery. "Hark !" said Mrs. Gardner, holding

upon the highest habitable spot takes horn and pronounces audibly and her back, for she would have rushed to loudly through it as through a speaking trumpet, "Praise the Lord God?" Eph at the risk of her life. "There's something coming through the woods, As soon as the sound is heard by the It's either the judgment-day or an earthneighboring huntsmen, they issue from

their huts, take their Alpine horns and repeat the same words. This frequently It was a crashing and rushing and rending through brush and undergrowth asts a quarter of an hour, and the name with the steady, even, measured beat of of the Creator resounds from all the horses' hoofs pressed to their utmost mountains and rocky cliffs around.

The loss of Big Pine-Tree had dis-Silence at length settles over the scene. All the huntsmen kneel and pray with organized the attack below for a moment. uncovered heads. In the meantime it and the breach through the door was not has become quite dark. yet large enough to admit a man's body. "Good-night !" calls the highest herdsman again through his horn, Eben was engaged still in a close to-hand fight upon the roof, dashing the Good-night !" again resounds from all boiling water upon the foe, and using it the mountains, the horns of the hunts at the same time to put out the fire.

men, and the rocky cliffs. The moun-taineers then retire to their dwellings a moment's breathing space he happened to look toward the wood, where the and to rest. openings in the trees rendered visible

A Puzzle.

he cried. An exchange offers to any of its subscribers who will solve the following puzzle an order for \$3 worth of goods, or to any one not a subscriber a year's subscription :

PRSVRYPRFCTMN they had belonged to another body. VRKPTHSPRCPTSTN. The above letters were written over the

ten commandments in a Welsh church, and remained there a whole century be fore they were interpreted. Now, almost every child's puzzle book in the land contains the puzzle, and its answer -the use of the vowel "E" between

Structure of a Cow's Horn, I find that over the brain of the cow.

He

melv

says Buckland, a strong roof of bone is thrown, in the shape of an arch, so as to form a substantial foundation for the horns. This roof is not solid, but is again strengthened below by a series of ony arches, that are so distributed as to form a series of hollow chambers, thus forming a structure uniting strength with lightness. The problem now is, how to fasten the horn on each side on to this buttress. The horn itself must be formed of horn proper, *i. c.*, hardened hair. In the rhinoceros we find a horn composed entirely of a solid mass of what is really a bunch of hair agglutinated to-

gether; but this kind of horn would have been much too heavy for the cow's convenient use. What is to be done ! Why, hollow out the center of the horn of course ; but stay-this will not do, because how is the horn to be supplied with blood-vessels ?-in fact, how is it to grow? Let us see how it is done by the Great Designer. Cut the horn right across with a saw, and you will find inside another horn, only made of bone.

If the section is made about one-third of the way down the length of the horn, you will be able to pick out a piece of There has come to be something

bone in the shape of a cone, on which, or rather round which, the horn proper has shaped itself. This bone fits the cavity with the greatest accuracy ; it is as light as the thinnest paper, and yet as strong as a cone of tin. It is everywhere perforated with holes, which in life contained the nerves, the veins, and arteries, and we know a cow has all these in her horns; nerves, proved by the fact that cows do not like their horns ouched, and that they can scratch a fly off their hides with the tip of the horn ; arteries and veins, proved by the fact that a horn, when broken, will bleed, and that the horn of a living cow feels juite warm when held in the hand, beides which the nerves and arteries form a union between the internal core of born and the external covering of horn

If we now cut the rest of the horn into sections, we shall find that the inside of the bony part is really hollow, but that very strong buttresses of bone are thrown (about every inch or so) across the cavity of the horn in such a manner as to give it the greatest possible support and strength. I have cut a cow's horn and skull into several sections to show these buttresses of bone, and now that the preparation is finished, I have another specimen to show that there is design and beauty in all created objects.

UNION OF THE CHURCH ... - The Christian Witness is very exultant over the organization of the Christian Union Church, which was effected at the recent Cincinnati Convention. It says that when the "basis of union was put to vote, and unanimously adopted by a rising vote, a song of praise and thanks-giving burst from the hearts and lips of all present, and the convention, devoutly kneeling, was led in solemn prayer that God would own, bless, and establish the

work of our hands." The new church will comprise Christians of both Northern and Southern States,

"How much did he leave ?" inquired gentleman of a wag, on learning of the in a saturated solution of borax. A clear death of a wealthy citizen. "Every-thing!" responded the wag; "he didn't take a dollar with him."

daughters deserve this at your hands. and that it not only be got in, but that it be prepared for use; that there be plenty of kindlings, and no grumbling about furnishing them. The walks about the yards and to the barns and to the out-houses should be prepared for the wet, sloppy weather of winter and spring. This also is due to the women of the household, to whom you look for comfort and happiness in your home. are a hundred and one more little chores about the homestead that will suggest themselves to the members of the farmer's family. Heed them well for the sake of comfort and for economy's sake."

Brigandage in Italy.

In the south of Italy a rich landed proprietor, named Laracca, was captured by the brigands. A day or two after La-racca's capture, 20 ducats and some his ransom ; but the chief being irritated by the smallness of the sum, ordered his ear to be cut off, and, supplying him stained with Laracca's blood, set forth that the unfortunate man was dying by inches at the hands of the brigands, and

unless three thousand, five hundred ducats were sent he would be killed.

This letter awakened all the fears and zeal of the family, and 6,000 lire were collected and dispatched, but as the sum was far below that demanded, the murdered the unfortunate man and fled as the troops were upon them. On the next day two other persons were captured, and the father of one came and tried to reduce the ransom. His wife also presented herself and begged permission to accompany her husband, when the savage Aliano, the brigand, cut off his ear and threw it into her bosom. Not, however, to multiply such facts, it is asserted on evidence that in one week Aliano and his companions committed two barbarous murders and one violent rape, sequestrated five persons, extorted 15,000 lire, and cut off three ears and one

Arrival of Immigrants.

The Secretary of the Castle Garden Immigrants' landing in an official statement puts the total number of arrivals since January 1, 1874, to December 1 at 145,362, which is 121,456 less than for the whole of the previous year. The number from Ireland who arrived in the last eleven months is 40.314 ; from Germany, 39,992 ; England, 19,156 ; Russia, ,320; Scotland, 5,287; Sweden, 4,065; Norway, 3,568; Denmark, 3,238; Bo-hemia, 3,189.

To show the westward flow of population from the Old World to the New for a series of years, also to afford a com-parison, we give the following : 1865, 196,352; 1866, 233,418; 1867, 242,731; 1868, 213,695; 1869, 258,989; 1870, 212,-170; 1871, 229,639; 1872, 294,581; 1873, 266,818 ; 1874, *145,362.

*For eleven months

A NEW CEMENT .- An excellent subsitute for gum arabic may be prepared as follows : Milk is first curled with acetic follows : acid and the precipitated casein washed with clean water. It is then dissolved

liquid is obtained of considerable consistency, very adhesive, and with a fine luster.

A Wolf in Sheep's Clothing.

An intense excitement was created at a Philadelphia boarding school at the discovery that one of the favorite pupils was a man—a wolf in sheep's clothing. Not long ago an elderly gentleman drove up While wor to the door, disembarked his trunks and introduced his "daughter" to the mat-ron. The daughter was tall and handsome, tastefully dressed, and promised to be quite a popular pupil. In fact, just such a one as the preceptress could take a pride sending forth to the world fin-ished for society. So when the father wanted to put her at the school she was gladly accepted both for these reasons and for pecuniary considerations. Then the father said good-bye, and after leav ing special instructions in regard to the care over the young girl, drove away. Next a room was selected for her in company, of course, with the usual number of room mates. Several days passed by ;

the new-comer was growing very popular with the other girls as well as with the teachers. Her wardrobe was extensive, her manners attractive, and there seemed to be a certain charm about her that all recognized, but none could explain. She herself seemed happy, her disposition was pleasant and she laughed a great deal. Sometimes the girls couldn't un derstand why she laughed ; but a slight explanation satisfied. Well, a month passed away ; the young lady was a great favorite, hardly less so with all the girls than with her room-mates, and she

was becoming quite accomplished. But one day she sent a trunk off for some reason and pretty soon she left quietly herself. Most of the household were astonished, and immediately the alarming story spread that she wasn't a girl at all. The teachers tried to hush it up, but it wouldn't be hushed. The room-mates of the decamped young lady were be-sieged for information. Then the story sieged for information. Then the story got out of the school, it has been verified

commotion in society circles.

A party of eight or ten men, some of

garments of his making, they are looked upon with love and veneration, their ountenances being regarded as the index of pure and compassionate spirits, According to the statistics of 1874

there are in America 36,178 German Methodist members; local preachers, 378; churches, 552; Sunday-schools, 647; scholars, 32,011. The Northern Methodist Church has had nearly 100,-000 accessions to its membership this

Diphtheria has been very prevalent in Australia, and one of the most successful remedies is said to have been a few drops of sulphuric acid in a tumblerful water. The result of this mixture is said to be a congulation of the diphtheritic membrance and its ready removal by coughing.

A big brother in Pottsville has been brought to shame. His sister had a beau who was obnoxious to him. One dark night on the steps she seemed to be affectionately kissing this beau good night. The brother crept up softly and kicked hard, and down fell an elaborate scarecrow.

Mrs. Flanagan, of Philadelphia, who is a daughter of Judge Strong, of the United States Supreme Court, is said to have received the most valuable wedding presents of all the brides this season. Among her gifts were a \$10,000 set of silver and gold, a \$5,000 pair of diamond earrings, a \$5,000 set of pearls, and four

While workmen were sinking a well in Kay Aounty, Mo., recently, they came to what appeared to be the bed of a lake about twenty feet beneath the surface, which showed petrified stalks of water lilies, embedded in sandstone, and a fish about four feet long, with a very large head and prominent eyes.

Mrs. Wrisley's watch has had an eventful history in Haydenville, Mass. It was stolen and recovered, the thief going to State prison. It was again stolen, and returned upon the payment of a reward. Then the Mill river flood came along and swept it away. Recently it was found hanging under the floor of a house that had been overturned bo the water.

A country deacon went home evening and complained to his wife that he had been abused down at the store shamefully. One of the neighbors, he said, called him a liar. Her eyes flashed with indignation. "Why didn't you tell him to prove it ?" she exclaimed. "That's the very thing-that's the trouble," replied the husband ; "I told him to prove it, and he did prove it.

A clergyman was one day much an noyed by those who dropped in after the services had commenced, invariably closing the door after them. He bore the vexation with Job-like patience ; but, at length, being fairly exhausted from that, he vociferated to an offender "Friend, do for goodness sake let the door be open. I believe if I were preaching in a bottle you would put the cork in !'

The social function of Albert Wagner, of Berne, Albany county, N. Y., is to act as arbitrator in nearly all of the disputes that arise in that town. Sometimes quite important matters, such as disputed land questions, or disagreements in families, are submitted to him. His decision is usually final, and his informal court is them experienced gold miners, are about to start from Holyoke, Mass., to seek their fortune in the South African dia-years has arbitrated for his neighbors acyears has arbitrated for his neighbors acceptably.

and the result has been a perceptible

head.

the far-famed "Banz des Vaches," or 'Cow Song," and this is of a very solemn and impressive nature. When the sun has set in the valley, and only the snowy summits of the mountains gleam with golden light, the herdsman who dwells

A Beautiful Swiss Custom.