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 I HAVE THIS DAY ADMITTED WM. L. BARSS, LL.B.
 Halifax, Jan. 1,1 En7. EDWIN d. KING. KING \& BARSS,
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AGRICULTURE.
Now FOR BEDDING. -1 is to be

Now rof bedping, - $\mathbf{I}$ is to be
tsken tor granted that: every farmer,
or one of his sons, or even daughters
for we have known daughters to graft for we have known daughters to graft

- knows how to graft, and large num-
bers employ that knowle bers employ that knowledge in spring-
time to put a good head on a wild tree, or to change the character of one
something more desirable. But th
spring is generally crowded with work spring is generally crowded with work.
Few get done what they desired and
intended to do; and among the put-off things very likely of all others will be
the grafting. Something of thi c clil be made up at this season by budding,
or inoculation, as it is sometimes called. It does not find the same favour wi
farmers as with nurserymer, cause no time seems to be gained over
grafting the following spring, for the buds put in now do not push into
growth till the next spring season. If grafts are put in next year they grow immediately, and make stronger growths
and form a good head much sooner than buds put in at this season will.
But then there is the question of time If one waits for spring it may never be
done. This is comparatively a season of more leisure, and a tree budded now
is done with. It will keep on growing, is done with. It will keep on growing,
and certainly will beat the tree that never is done
Budding is
Budding is so simple an operation, and has been over and over again des-
cribed in our columns, that most persons who are likely to be benefitted by this article know how it is done or ought to know. A piece of bark containing a
leaf-stalk and the eye at its base leaf-stalk and the eye at its base is
simply put under the bark of the stalk simply put under the bark of the stalk
to be improved, and which has been slit and "lifted" or loosened by the back of a knife for the purpose. After inser-
fion the bud is tied firmly in. Anyone can understand this, and only experi-
ment will teach more. But there is one thing which all budders do not un
derstand, and we will explain why even derstand, and we will explain why even
some good liands fail in their work. The branch on which the bud is to go
must be thrifty, vigarous , and in every way healthy, or the buds will no "take." Failure in most cases comes difference whether the branch to be op erated on is more than one year old so that the bark separates freely
trom the wood-as the budders say "runs freely"-but it is essential that bark generally loosens freely during the we have described. In regard to th bud it must not be too young. Failure generally comes from this. There far less chance of failure with very old
buds than with young eyes. All the buds than with young eyes. All the
buds must be of this season's growth. Germantown Telegraph.

How rightly to apply helebbore
-The destruction of currant bushes for ears past by worms has been the mean of enhancing the price of that valuable fruit in most markets, while with a little
care it can be cheaply protected. It is a well-known fact that white hellebore sure death to the currant-worm, but at while others apply it in such a way that while others apply it in soon washed off by rains, or onl touches the tops and outside leaves,
leaving the inside of the bunch of bushes for the worm to feed upon. The whol secret is to apply it on the under side
of the leaves, where the worm fastens to them. To do this I take a piece of through sparingly, about 10 inches square ; put in about 4 ounces of the
powder, and gather it up around the end of a stick about 3 feet long, and tie on, making a sort of bag at the end. I then make the application in the morning before the dew is off by open-
ing the bunch of bushes and puting ing the bunch of bushes and putting
the bag end down nearly to the bottom and shake it, the current of air is then upward, and the leaves being damp,the powder sticks on the under side. If the
current of air is a little sideways, shak current of air is a little sideways, shak
low on the wind side, on the outside the bunch of bushes. It is not best to wait the appearance of the worm, bu doctor the bushes as soon as the blos
soms are well developed and the leaves are half or two-thirds grown, and again after the fruit has fairly set. This will usuaily do the work for the seazon. The main point is to rightly apply the helebore, and with those hints and a careful attention, with the use of a litte judgement, the currant bush can be
preserved. We have a row about six rods long that we have preserved for rods long chat we have preserved for
over 12 years, in fine, healthy condition producing from $\$ 15$ to $\$ 20$ yearly be-
sides what we use, at a cost not to exsides what we use, at a cost not to ex-
ceed $\$ 1$ per rod.-Cor. New York Tri-
bune.
$\left\lvert\, \frac{\text { SCIENCE. }}{\text { Novel Joint Stock Company.-- }}\right.$

Novel Joint Stock Company.--
Signor Parnetti has been engaged for the last four years in analyzing the
dust and debris of the streets of Flor ence and Paris. His investigations
the debris of the horse-paths prove that the dust contains 35 per cent o the stones. In the dast trom the cause-
ways this eminent chemist finds from 30 to 40 per cent of good glue. Signor
Parnetti selected and tested separately She du-t from the causeways of the
Boul-sard des Italiens over a period
of two monith, which uniformly gave 30 per cent of good transparent glue, it
is said, quite equal to Belfast glue. He contemplates placing his discoveries at the disposal of a limited company,
with the view of establishing blast fur with the view of establishing blast fur-
naces on the banks of the Thames, to recover the iron thus lost, and a large
glue works, which, it is thought, will glue works, which, it is thought, wil
produce more glue from the wasted for every purpose. - Iron Trade Ex

Ortain of petrolecm.-A new theory, based chiefly on chemical considerations, is propounded by Prof. Men delejeff regarding the formation of
petroleum in the intryior of the earth petroleum in the inteyor of the earth.
From the fact that in Pennsylvania From the fact that occurs in the Devonian and Silurian rocks, it appears to him highly improbable that the fluid hydrocarbon tion of organic remains, for but little or ganic life could have existed in these ages. His theory, starting with La-
plaee's hypothesis of the formation of our plaee's hypothesis of the formation of our masses of iron, and, along with it, of
inorganic carbon, in the inner parts of the earth. The water which, from th more exterior regions, penetrates to the molten metal, is decomposed ; its oxygen goes to the iron, while its hydrogen unites under the influence of great heat and pressure, with the carbon, to form
the varieties of hydrocarbnns which make up petroleums.

Propagation of heat. - We learn rom the Repertoire de Pharmacie that M. Oliver has found that under certain direct proximity. His experiment was thus conducted: A bar of steel of certain imensions being selected, the operato paces one hand over the center of bar and the other over one of the ex
remities. The other extremity hen heated by rapid friction with energy. At the end of a few minutes he further extremity of the bar becomes so hot as to compel the operator to remove his hand, while his other hand, which had been placed over the middle of the bar (and consequently, nearer to perceives no heat whatever.

The fuel of the future-The abundance of coal is questionable. Its cheapness is only apparent and not real and the question now raised is weather coal is either scientiucally mercially the best fuel. The question hvolves matters of the widest interes
both in trade, manufacture and domestic ife, and it is the most important ques ion and the immediate future. Coal has been tried and has been found wanting. It is not a cheap fuel, and a
cheapffuel is one essential factor in ou civilization. The fuel of the future is pas, cheap nou-luminous, heating gas, delivered in pipes at every shop an
house-Charles Bernard in Scribner's.

The inhabitants of the droughty regions of California are reported to be
leaving, with whatever they can take leaving, with whatever they can take
with them. This hegira to other parts of the state has caused a great depression in the price of labor, as hundreds glad to work for their board. A few more such droughts in California an grasshoppers raids on this side of the convince people that there are desert places on this continent, as well as elsewhere.

Highland Scones.-To one pound of flour allow from two to four ounces of butter or lard, as much hot milk as will make dough of the flour, and two beaten eggs, if the cakes are wished to
rise. Handle quickly, and roll and cut in any shape or size wanted. tomed frying-pan. Must be served hot and eaten while fresh.

A horse who lays back his ears and | $\begin{array}{l}\text { looks lightning when any one appr, } \\ \text { him is vicious. Dont buy him. }\end{array}$ |
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Agents for the Christian Messenzer.




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