## fanliro the engine go? That tory for the motorist If the automobile, owner has a knowlegge of the functioning of the engine it will enable him to pithe Inside of this slides a plug of metal shaped ilie a drinking glass enlarged, hich fits the interior of the which fits the interior of the cylinde This. <br> Queer, How Mothers <br> Queer, isn't it, how mothers Are? How peaceully content seem they Just to sit back, and day by day, Let others go the eoyous way Let others have thetr smilies and fun Help others get their labors done Help others get their labors do Ready to comfort any one. Queer, isn't it, how mothers are? Aot aring as tow wat they wear, Atthoung they are so fair, bo tair. But how they worle, and how the care, And bring some little jeweled bar For daughter's hair! How lon To meke her dress "Just right, yo And fitw, it then, with eves aslow! Queer, itnnt it, how mothers are? <br> Queer, isn't it, how mothers are? How they will soothe and nurse the How sweet they make it to forget! How can they smooth each little <br> Each ugly ittle care and jar! How, in whatever thing they do, How, in whatever thing they do, The heart of them shines out ane Forgetting "It" amd thing ing "Youl Forgettlng "T" and thinking "You! Queer, ten't it, how mothers are? <br> Land of Flying Animals. In Australla there are at least twen- ty inecles of animals which are aviat fylng oposssums, fyring milce, and even gying bears. is "phalanger." This means that they have, extending from the front to the find legs, a membrane which enabies hem they to flog in quite a gracenal was from tree to tree. They are not real. fy fying animale, y fiying animals, but gliders. The fying squirrel lis said to be the most beautifulu mammal in the world. It is odd that in the land where many antmals fiy thrde antmals fyy, birdse otand wheno many mat at all. Both the emu and the eassowary are practically wind are practcally wingless, and have to to depend upon their long and strong legse to eecape trom thelr ane 

 MOKNOWLEDGE OF ENGINE AIDS IN CARE OF AUTO What makes an aitomobile go fir one to twelve of these cylinder
gell, the engine has a good, deal to coupled together. They are most usu Well, the engine has a good,
do with this matter. But what makes
ally found in combinations mo


 s needs and as to the matter of over- ders does the same sort of work, but Then, too, this knowledge will make To cause $^{\text {the }}$ engine to generate possible for him to have an inkling power a mixture of gasoline and air
at least of what any trouble is about in the form of a vapor is fed into the
ine the thing doesn't seem to work celinder above the piston. To po Thient.
The gasoline engine which is used this mixture a carrusetor is attached

to the engine and a valve is furnished . 99 per cent. of all automobiles in which opens to permit the mixture to | ists of a cylinder like a stovepipe. | is opened by a cam which is driven by |
| :--- | :--- | :--- |
| nside of this slides a plug of metal |  |
| a |  |
| a | suitable gearing attached to the | y means of a a connecting rod, which $/$ fre by be means of a a spark which oecurs urns the back-and-forth or recipro- is ignited it burs. . rapidly and pro-

cating motion of the piston into a
duces heat. This in cating motion of the piston inta a duces heat, This in turn causes pro-s-
otary motion. This is the motion sure on the piston forcing it to slide
ransmitted to the rear wheels.
-AND THE WORST IS YET TO COME

BIII

Conquering Mount Everist Man is Again Measuring Will Wit
 They must eamp on ice and cethods.
sow wails against pittiess gat ing route from Darjeeling is is a test of
fitness.
The first stage is
from DarAtness. The frrst stage is from Dar
jelling to the bridice over the Teesta.
Then, up and down, the path strug trough a magnificent teifite, on engther
dio of which huge waterfalls
dro Wn creeper-hung cuaterfalls drop drop
whlle depe
ols
bar the way and have to be ossed by rickety suspension bridges.
At the Base Camp. Mules carry the expedition's equip.
nent to co tumbl. Besond that, trans
ort ts ort tis usually on yaks-a kind of oxen
and donkey. In 1922 General Bruce
was aboe to persuad the chumbl men

 15,200 feet above the sea. It It or has here
that the last expedtion almost met
with disaster in a fearful snowstorm.


$\qquad$ It is almost as high as Mouts Blonc
and marks the transition from humic
and India to dry and sterile Tibet. Hence.
forward the only beauty is in the alr,
in the shadow eflects $\varnothing$ blue find purple on distant mountaning, tid the ini
desionat splendor of the yleeding sands
which cover most of the dreary way. whice cover most
And every ay the the
howls more alternt
 miles away, but in the clear air seem-
ing not hail that distance. From Sh.
kar, the last point where tood supplies
ti bulk can be arranged, the march
The corners
trawn togeth
leched both
orts are fast ength Against the Blind Forces of Nature. This Year
dtempt to Scale the Peak of the World.


 range in the world, still calls in
conauered defance.
his year Mount he foriward pligrimage passes an, above andrs on camp, crosseses 20
0 hich the main artacks will be made This year the. ellmbers may assaai
The
 sert : R or a more direct climb to the North
Col from Ronbuk trsil. Accilima-
Isatron to high altudes


 or this mighty expeditilon. Past ex-
verienee proves that after a man is is
hrty-five, his body does not easili Hitt-five his body does not easily
heet the conditions of hard work and
bw oxygen supply. Gas cyllinuers wwill be used again.
on the way to the peak, camps at 27 , On the way to the peak, camps at 2 .
oon and 28,000 feet may be made. Th.
party now attacking Everest is is party now attacking Everest is ti
strongest yet sent out. Messs. Leigi
Hallory and somervell, who made great "natural" climb, of $2,7,000$ fee
re again to the front. The new me have shown power to withstand e
posura and do hard labor under difi
poult condittons.
 ertainl there may be some excltt
interferes
noments before the whe
 be cllmbed and left in a couple
hours. $A$ monsoon storm may rag
over a stren of mountaln eual
four days' hard travel! In this lie the greatest danger. This is the third expedition towar
Everest since the Dalai Lama at
sa
sa granted pasea sa granted passage to a Brtitigh cllmb
Ing party. In 1921 the work was re connalssance, rather than attack. The
northern face of the mountan was
then unknown. Messrss. Leigh-Mallory and Bullock did much high ox.
poraration. They found the Rongbiuk
glace aud ith branch, the Weat Roog.
buk, both of which end against

OPEN LETIERS TO A FARMER

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(Continued from last week)
IV.
Venneer. 1 have one grleva
and most of your fe terior one.
Now why and most. of your f
respents your own
your ocilal positlon.
more keenly becaus
 senerally. and so forcibily, pervalit
What do you farmers and farmerr
tamilles see in town
 vince you of their superiority Have Have
you ever known them to do anything
very extraordinary,
auysthing
 have lived some time in a town or
y ? Do
Dou a cually believe the
 magsinable way? If their ways of act
ling and appearing are somewhat dif
terent from yours, why conclud that
you are inferior? What in it in them you are inferior? What is it in them
that you aro always takitng off your
hat to? Try to answer this question thoroughly. I challenge you all who
give it a moments htought to sy 1 it
it is not simply veneer-because they


 cause of their fallure to make goo
there? And of those who gave promis
of real abillty
 sured up to the average farm boy in
the practical affarars of life, or could the practical anairs of life, or could
have taken hls place there There
are hundreds of thousands ekeing ou Hellihood in one or other of thees
ocupatos who would be face to fac
with dire starration were they to at-
tempt to manage a farm. On the other
hand, have you ever known a suceese. hand, have you ever known a seneccess
ful farmer who could not have carne a
tht
nwas a
had
po
popogition as farmers importance of of you
at all surprisising then is it
that younggrow up with an ambition to embartin some other pursult. Ao the pre.
sent time, we hear many explanationstht time, we hear many explilne pron
the tondency to abandon the landally papers, weetly magazine
bound in them, the subtect forabound in them; the subject furnisibes
endess topics or ambltous platorm
speakers.
Generoally theypeakers. Generally they aro bestide
the subject. They tall to discover thethe subject. They fall to discovere the
real cause. If you aro maktng accur-
ate observations among your nelghborteal cause. If you are maklng aiccur-
termers, Itotons among your nelghbo no doubt you willTarmers, I have no doubt you will ac
mit that the real cause, the most com
mon cause t les here

On a Seventeenth Birthday. To-day my tall broad-shouldered lad,
What such a grave protective mion,
Watched with eyes grown string watched with eyes grown strangel
sad Though proud these mother-eye For brave and boniny seventeen
Is not a saddening sight to see,
Ye Yot I have lost, long years between,
My hittle boy that used to bet
How well remembered and how glad
That' hour when happler than
queen, son 1 had,
A rosy nfant
When all the singting world ww
green;
With what deep gratitude sorene
I welcomed my maternity:
Ho weicomed my maternity: sweetest ever seen.
My little boy that used to be!
I see him now in velvet clad,
And just a trine vain, I ween, Showing his nelw sutin, to heen, "dad,",
As male birds their feathers pree As male brids their feathers pree
His curls had snch a golden sheen, And by his crib on beneded kneen,
ra pray God's love from harm would
> ra pray gods
sy litte boy

> Real Obedience.
vear-old, to her tavorite. doll,
of whose arm exposes the
> Four--ear-old, to her favorite doll,
the ouss of whose arm exposes the
sawdust-"Oh, you dear, good, obedr-


hat'\& your next?"
wine-"The rug!"
Over a White Road By Lereine Bal
orer a white road
And far away, Where dream-land beckon

The bright sun goes
And shadows creep. And shadows creep,
And the moon peeps on
To vigil keep. over a white road
Where faliries call, The sandman gets you
In spite of all.
$1 \times 1$

