# INDUSTRE <br> 4arar Michavies 

MACHINE FOR MIXING PAINT
 As a considorable amount of palnt-
mg had to be done on out farm, I de
vised the following paint mixing machine, which greatly reduced the work
of mixing and also mixed the paint
far better than it would have been possible to do by inand, writes Willson
8. Sutfin in the Popular Electricity. cured and also the rear wheel of an
old coaster brake bicycle. The head
of the barrel should be removed and
the the entire coaster brake .taken oft the
bicycle wheel. A bard about six
inches wide and long enough to proJoct over tho ond of the barrel so a
to hold a small motor, was then ob-
tained. In the conter of this board

 must be kept oiled. The shatt was
then fastened on the hub of the bt. cycle wheel. motor of one-fifth horse
Any small mor
power or over will furnish sufficlent power or orer wine furnish sumpied the wash
power. In our case we used
ing mathine motor.
ither
possible, should be removed and re possible, should be removed and re
versed on the shatt. The small pro
jecting end must then be tightly pualiey has no projecting ena, the pul
loy itself may be wound with tape. The rest of the drawing is selfees-
planatory.
Whene liend, and on are frrst
placed in the barrel, they must be place in the barrel, they must be
titred for about ten minutes. Then the stirring outhit can be lowered
mito.the barrel, the rim of the wheel
resting on the pulliey of the motor. DUSTING BY COMPRESSED AIR Problem of Removing Fine Rock Dust
From Workmen's Clothing Solved
 rock drills on mative power for driving the large ev-
cavating jobs in New York elty. The men who direct the operations of the
air drillers and the men who work in the trenches have miscovered $a$ now day's work is done.
The powerful drn
warted all over the vicinity in which the drilling is being cone. The men's
clothes become covered with a layer tremely difficult
The problem of removing this fine
rock dust perplexed the men until one of them found the soucton by re-
moving the end oi the hose whtch car-
ries the compressed air to a drll and directing the powerful air current on
his dust-covered clothes. With a hiss ing sound the air rushed out an
swept away the rock dust instantly In five minutes the man
his clothes to perfection.
Now all the Now all the men working on jobs
where compressed ar is used are us. ing the up to
their apparel.
SAWING COPPER AND BRASS Saw Frame Is Made More Rigld So a
to Keep Blade From Broaking-

Desiring to do some sawing on copper and brass with a hand scroll saw
I stifenee the trame in the mannee from breaking. A notch was cut

(

Using Hand Scroll Saw.


MAKE POLES OUT OF GLASS Serman Mantuaturing conoern pute Soldulyy and strongth.



 and ast practically for all time, except
in casee of unusual actident, where
they may bo broken, as in railioad
wrecks. They wili last even longer than iron or steel, as weather has
practically no effect upon them, nor
can Insects get finto them and destro them. $\begin{aligned} & \text { And in these days when wood is } \\ & \text { becoming more and more valuable it }\end{aligned}$ it will be quite a saving of the precious
wood to make such things of glass.
Experiments are also under way for glass in which wire netting is im. bedded in the glass.
Paving blocks are made of glass
and have proved to be a most valua-
ble material for street surfaces. be ble material for street surfaces, be
ing gitted together in such a manner
as to be water tight, no water run-
ning down between the blocks. There
ner streets paved with glass, and the
have a beter resistance than stone
and also are not such great condue
tors of heat as stone. These gla actually cheaper than the granitt
blocks.
DUST BLOWER FOR HANDSAW Enables Carpenter to Keep Line He
Is Following Clear of swawst-
Worked by Thumb. Carpenters will weleome the hand
saw blower and hanger designed by
California man. With it they will b able to keep the line they are follow-
ing'always clear of sawdust so that
they blower is cut along it accurately. The
upper part of the saw hattached to the
unde, where thean be operated by the workman
the pressure of his thumb. It consist
of rubber bulb with a metal tabe below the handle of the saw so that
lies the exhaust

employed in its industries.
There are 64 trades unlonists
housand inhabitants in Denmark.
In Germany the lithographic trades
unions have a membership of almost unions ha
100,000 .
Bricklayers, masons and plasterera
international has a-membership of al
Derbyshire, Devonshire and West moreland provid
found in England.
Venezuela has prohibited the impor
tation and sale of dynamite except by
A locomotive using napthaline for
fuel and rated at 70 -horsepower re fuel and rated
cently was built in France.
Pennsylvania produced more than 3
per cent. of the Portland cement per cent. of the Portland cement in
the United States last year and Ind-
ana about 12 per cent.

Gold is beling mined at a depth of and it is believed that the
be gunk 3,000 feet more.
Lever-operated clamps for the hande
and feet have ben finvented in Eng and feet have been invented in Eng
land to take the place of ankle spike
for pole climbers, with the added ad
vantage that they can be used on mot vartage the
al poles.

## New Map

 of BulkenA.



## (SAM JOHNSON WAS REBUKED

## Cievolander Who Had Tormerity Whistele at Tramp is Promptly and Justly Reproved. <br>  tale. Sam called "Hey, there!" but the house, telling the same s tramp didn't pay any attention. "He tramp shoted Sam, with similiar re You! shoute sults. Then Mr. Johnson put his fin The ghistle. The tramp turned and re The garded him angrily. "Say," said the tram think you're callin' land Plain Dealer. <br> The New Way. The Political Friond to the Cand iate-Here's a thousand for your caa date-Here's a thousand for your ca paign. Put it where it will do the mo good. it? 

"Wilson says h'ts a heap sight bet
tor than the pooplo who talk about
him"

## 新

8,000 square killometers ( 3,200 square
miles), with

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