THE POINTS INVOLVED IN JOINT. In all wood working the proper connettion of
the parta in an eumental element, and in doniym ligg or executing joints and fantemings in wood
work, the following principlas laid down by
 1. To cat the jinte and arrapge the futwing
so an to weaken the pieves of timber tiat ting

 warly as poemhle propend
which it has to trantmit. I To proynartion the area of euch surface to
the promurn which it hat to bear, so that the timber may be nfe againat injury nuder the
henviont loads which occor in praitice, and to
 tornly, To proportion the fastaniugs wo thas they $_{\text {\& }}$
may be of equal strongth with the proces which
thry connect.
(imike so that there may be nuthicent resiat und to the giving way of the joint by the fas.
anew
tetimes shearing of crualing their way through the timber.
leen impertant than the foregoving. vie. Tvene
 The ruseon for this in that the mire complicated the joint, or the grater tho number of warnay
nurfoces, the los pribatility tikre will leo of
 Which is not quite true it is anial after the
piecas are put togecther to rum a waw.


 tenon or the hastimg rule of a verf, when care-
 When the viaible junction of two pieces is ro
quirol to her as clow as porible, and no great qurruin to to be nett st hle jomt, it is unat to slighty muler
on the inside.

THE BUUE JAY.
We give our mailess on this past, an ongravho is injurious. If "haudsome is that hand. some suse" he trae of binds, then the
jay is a model of ugliness is spite of hia bright color. Evvry maits hand is raveal agginat him for he is a deatroyer of fruit and grin, and nuts:
and is a devourer of egs nad the yonuy of

 thrive is the aiven
to viat apen him.





 trary, The winter ix ntoat to be oxcegtionalify
milh, no was the cane lat year, they cuily to

 to them late in Peliruay was shortly followed
bi vevere frots Oin das is Maseh, white the


 juatifiol by the realt. M, Hoochand atates that by mesular attuntion to the movements of
those neaxive weather poopluts, he has peen

 Guvenuanent to develop the Waiver cond fields on Hehs there are by ermputation, hoo,000,000
tour of coas within it miles. The soal rod. sital mainly of an 11 foot neam, hat oving th the rithecity y now wall system. It took thrive





 sail the coal was mot faulty, and he hal no

 man.
To Bumums luox-The following method
 oresumpesiled ty lonken the articles to bo
 where they russie for shout an hour. This bes ret then dipyol fur alouta cial nitroas acid. valhel antfilly, triel in
 surface having a white ghace Care whold be taken ty any one
inhale the fumees


 Not tut plagesing of in in tommeny nuery


 Nompary in watin The two tuwath
 Natity






the newe

















 Imos mil that und lowity vil miay it A
noul

vai morma, they am

Isoumowisn Nans:-One of the deenved pun-
ishauats which people suffer imom the toly of nueceng their foot into narrow shoes and souts in in in inowing muil. Mr. Soath rocem-
ment, the flowing truatment for to cure.
 se may be uncondinel, and the nail allowed Sos nus do vary quidkly, Theu proceed to reCove the sure win by the eqe of the nail ef it
remire It is of no ue, Bowever, merely to it anay the presing asil oven freely, anid hinath prees a plieeo of lint under its edse, it is net patherwise managed, will drop, in he ourpe ef a fow lays upha the od npot,
ait ayuil ruder it "ampry. Tho proper mble of the mil, from it root to theme at
 eatined to mupplant it" It camot ho ignorad arid rilk, the hulle and toilers of meatal ah reaul many other articles, patent fnots yielil in.
reasing support to the forecast of Mr. Low-


 dhould happen to lave been fornerly lad with
iron, thoy now imvarially subutituto
nteel, for
 motal will wear throe or foar timne longer than
thowe made of the forner, votwithatanding that theel railn oost only 10 ahillinger por ton mare
than imat ones Beides. Floyif have alrody anctimed the constroction of thel ship at a
reluction of $25 \%$ on the stanting mplured in

 ivers of America and the dykes of Hollmad,
and it caunut le long before the security of this material for nimilar purpoeen in Eacland in gase.
erilly recoguied. There is, however, an an. portant considioration which, in a cotamercial. point of view, might bon regariel as a drazor example, tow rails wilnat ty yars matead
 is obvious that, unlest euterprise in thene do-
parments develop oo a soale vant boyouid anpartments develops on a soale vant beyounh an-
ticipation, the grater durabity of the one
metal, au compared with the other, will prevent metal, as compared with the other, will proviat
oriers from bing go frequently repeated for ro placing wated material.
 chacaic sayn: The nolability of carmine lake in
cauntic agna ammonia is attented with this tist advantager that in consequence of the alkaline
 vantact with a steel pea no louggr prowhices thie
intenao rod, that ratber a blackial color. To woil this evil, prepare the ink as followa: 8at urate 1 gramue of pure carmine with is
craumes of acetate of mamonia molution abd an equal quantity of distilled water in a porechain
noortar, and allow the whole to stand Yor tuine time In this way A portion of the alumia
which is evmbined with the carnine dye ie taken op by the acetic acil of the ammoniakit,
 sturatel ammonia It is now filtered, xed a ew itrope of pure white syrap addel to thichen it. In this way an excellent rol drawing ink
is obtained, which holds its colur for a lang

 nenta of gum arahic.
 concorning firme in flour mills: "T Thave loees rade, aud in that yoars onatecem wy nuife fion to be otice burned vat of a nituation. majority of which have taken place in the night
 everal hour, many of them broaking ous ofs ing, or after minitithit-in other wortk on Meop
 atribute to the emolidering of dust around nime
hot beariug till it has aneruedel a lody of fire mid charest wod, when a slight draoght hay pow
luesil a flanie, and beforo being noticel vwe
 In moot caves this night hare been proventeo
ly round and look to all bean
the place for the niglit.
To Sror Nome Blezen-A corrapponilent ad the Drophtif © Adrerliner nays: The bieding
may ariae from an impoverished state of the

 times simple rumedies relieve prost ills, asd perhaju a knowledge of the following ampit
 ond fare. Aprlying a torwel wet with cold wo

 thail roll of paver or mualin under the efrive on the sume, which by comprosing the osteriak ou the sime, whic
checks bleeditus:
A Sox Wuase-A white whale (Bllyen Amercia for the Weetmimiter Aquarimim II





