If we hate any reputathen a- a jutge' hat has been gepaired. wheh is not to

 - hanges of these domeds, enubisend, of course, with dae attention to instrumentis and other things, has been the calue of our kinowing, perhaps. a lltho more of the coming chathes thate some wis cotr neighlyours.
 The princupe, on which refrigeratore
 ad ar ming theronghts curled and then ailonex to expam, beromers cold enotgh, in the act of expminson to freeze a ater. For acromphish hilds, the air is taken by arromas from the meatchamber and these compressed ; after whel it is cooled ly fetes of water and pasext therozzin a sysam of tulses. .ifter prasing through the expanding appatatile, the atr is discharget, at the rate of +N.000 conble feet an howr, into the meat chamber. The adr. thus manared. Is aryer and this systom work better thath wats commonly the case with the first experimemts of preserving meat, ete. throngh a long rovage by meane of blueks of ice.

RENTS IN TME LAVRENTMES. it somuls impossible, but it is trate: A young friend of curs, who bats ben pas. is gt the summer in a ${ }^{*}$ health rewnt ${ }^{*}$ at St. Hippolyte (1) de Kilkeman, tells us that the house in which she was staying, with 120 arpents of hamd. was het io the tonant for twenty dollars a year Heareas! what a chance for a gool shepherd to hire four or five contigumes iname, throw them into ome, and maki: : real sherepfarm of the whole.

## (5overmment ilotires, Nr.

IMPROVEMENT OF THE ROADS.
The inmorement of the rands an the rural parts of the Province of Queber lecoures more and more a daty fucumheat on the rate-payers. People in geawal have to fiea of the enomoolls lass. e incurred by the absence of easy modes of communication. Our neigh. bours have bexn before us in the improvement of their roads, and it is high ume that our prorince should adopt a vigorons policy, and emerge from the state of huferiority in which it now supinely rests.
The present administration proposes to afford active suphort to the rural mundepalities, by helping them to acquire the improved machines for the inending of tueir roads.
Whit this in view, it will phace at the disposal of each county, during the current year. a contribution of $\$ 3.00 .00$, to ve dirided into shares of $\$ 125.00, \$ 100$.00 , and $\$ 75.00$, between the throe tirst municipalities that shail inform the government, by a resolution or the munsripal comell, that it is their intention to inay one of these machines. and shall, in reality, become poisessors of one durlug the present season.
In order to acquire a right to the gorernment grant, the following condiUons must be complied with :-

1. The machine must be approved of ly the gorernment:
2. A report raust be sent is to the Departinent of Agriculture at the end of the season, stating the length of roars
1) The correct spelling. It means simply " Coachman."-Ed.
3. The mathise must contanue to be the property of the mundelpalisty for at least three years, an hall mot be sold withont permision fom the govern ment during that term.
4. The workins of the mashme suat be carricy on at the eapmane of the matvecipality, the goremment, howerer, agreeing to send, temporarily, an ins tructor, ma case of necessity, to any muncipollit: that shall ask for the arrvises or one
"From the Fronch."
(Sygheal), F. G. M. DHCHENE,
Commissioner of Agrictulture

ROLLERS OF HARD-MARLE FOR WALL-PAPER FACTORIES.

London, July 94, 1897.
tu M. (. A. Gigatit. .doot. Commas sloner of Agriculture, Quebse.
Hear sir.
1 have lately receivel, from M. (i. P. Cidean, of Stamiold, a request for in. ormation renpectang the consumphom a E:nghat of rollers made of haviaphe wood as used in the manamatare of wali-papers. He had neard that ther 1 als a domater for this aride oa the Enghlish market. As hard-maple is plent:tul in the province of Queber; and as matiy of iss prople may be interested in the traeston, I scud yon the iniormation 1 bave obtaiesed on this subject.
"Mr. Jas. Barret, mho is making rollers for mamy manufacturers of wallyapers, writes as fullows:--The maphe ohles tiat I use are 2 It . 2 in. lonar atal $516,6 \%$, and $7 \%$ welhes in dianeter, with a cuntral vacant space of 2 in., which shouh be lared gulte stralght. The heart of the wood should be cint out. The trunk of the tree, I believe, is first shit: then the woori is rousldy turned to the proper size. At present, 1 have canoush in stack: but I should be glad to know what would be the enst, dell. vered here, of azch size of rolless made of Canadian iard-maple. 1 am paring 45 to 26 cts. for a roller of $51 / \mathrm{in}$.; 37 cts. for $61 / 2 \mathrm{in}$, and 50 cts . for $7 / 2 \mathrm{~m}$. I loys a thousami, or more, at a time. and I keep thenn 3 years in stane before using them. My purchases depend upon the saminles and prices sent me."
Mr. Barrot's address is 226, Old Ford Road, London. If any persons in Caanda would like to do insiness with inm, he will be happy to hear from hem.
There is no donbt abmut there belng a great denand for these rollers in different parts of the country.

Fathrully yours,
HARRISOA WATSON.
Curator of the Muscum of the Imperial Institute.

## OONCBETE, ETC., FOR FLOOBS BORDERS and WALES-GROUT FLOOR.

(Extracts 1 ro:n "The Horticulturst's Rule book" by i. H. Balleg).-1.-To secure a good grout or cement floor, make $n$ good foundation of small stones or bricl bats and cover 3 or 4 inches thick with a thin mortar, made of 2 parts sharp sand and 1 part water-Ume.
2. Fresh powdered lime, 2 parts . Forland cement, 1 part ; gravel, broken chone, or brick, spars. Max with water (1) a hquid consistcsey, amblet 31 bo Hhrown foreluly, or ircepped into its posi 11023. It should be well beaten or rammed to minter it soltd. A "skim" of dim. rich mortar may be placed on tom as a thulsh.
falnis a.id photegilye com.

## polisiss

HOME.MADE WASHES FOR FEN(H2S ANI) OUTHULILHNGS may be tiale by varlous comblations of hime and grense. The following are good formulas:-
1.-Sluke fresin quickllme in water, and ihm it to a paste or paint with - kitu-milk. The addltow of 2 or 3 handfols of sate to a pail of the wath is beneticin:
O-ロ quarts shim-malli, 8 ounces of fresh slaker-lime, 6 ounces of boilcal linsed oll, and 2 ounces of whit. pitch, dissolred in the on by a gentle heat. The lime must be slaked in cold water and dred an the are untll it falls into a fine powder ; then max with $4 / 4$ part of the milk, addisg the miseri oll and piteh iy degrees; auld the remainder of the milk. lastiy, add 3 pounds of the hest whtitu and min the whote thoronghly.
3. Slake $1 / 2$ bashel of lime in boiling water, keeping it covered; strim and add lrine made by dissolving 1 peek of -alt in warm water, and 3 poduls rice thow, then boll to a paste ; ald $1 / 2$ pound whiting and 1 pouxd of gluz Aissolvad in warm water. Mix and let stand for : few days bifore us!ng.

## FIRE FROOF PANT:

4.-In a covered vessel, slake the best quicklime, then add a misture of skimrilk and water, aul min to the conststeney of cream; then auld 20 pounds of alum, 15 pounds of gotasin and 1 buskel of sait to erery 100 gallocos of the liqrid. If winte paint is desired, add to the above 6 pounds of phaster of Faris.

## For Dhmp wilids.

J.-if pound of hard soap to i gallun of watcr. lay over the brieks steadsly and carefully with a flat brush, so as not to form a frotio or lather on the surface. After 24 hours, mix $3 / 2$ pound of ainat with $\pm$ galous of water; let it anand 24 hours. and then appls it lu the same manner orer the coatiog of soap. apply in dry weather.
6.-142 pound resin, 1 pound taliow, 1 guart linsed onl. Melt together and apply hot, two conts.

## WATEH-ILUOF:JNG FAINTS.-FOR

 LEATHER.7.-3: pound of shellac; broken into salall pleces in a yuart bothis; cover With methylatex spirtt (woon alcolol). corli it tight, put it in a warm place, and shake wenl several tomes a day: inen adde a picce of campior as large is a hen's effe : shake again and add cne ounce of lampblack. Apply with a small paint-brush.
S. - Put into an earthen jar $1 / 4$ pound of bengwax, $1 / 2$ pound of neat's-foot oll. 3 or it table shoouruls of lamplack, and a pilace of caumbor as large as a hen's erg. Melt over a slow fire. Have both grease and leatiner wirm and apply with a brusll.
9. -1 pint of unseod oil, $1 / 2$ pound mutton snet, 6 ounces of clean beoswax. and 4 ources of resin ; melt and mix well. Use wialle warm witi a brish on new hoots or shoes.

## FUR CLOHI HOR PITS AND

 Fibimes.10.-Ohld pale linteed oll, 8 pints ; sugar of lead facetate of lead), 1 otase; white resin, $\&$ ounces. Gromd the acetate with a little of the ofl, wen add the rest and the resin. Use an frou kettle over a gentle tire. Apply with a brusi, hot.

## FOL PAPER.

11.-Dissolve $1 \%$ pound of white soay In 1 quart of water: ta another guart of water, dilssolve 13/2 ounce of gum arable amb a duces of ghe. Mix the two ligu!ds, warm them and sonk the paper in it asd pass through rollers, or simply hang it up to dry.

## TU PREVDNF MFYAIS FIROM RUSTING.

12.-Mell together 3 parts of lard and 1 part of powdered resin. A very thin conting applicel with a brush w!ll keep stoves and grates from: rustlog during summer, even in dabup situations. A little bhack lead can be mixed with the lard. Does well on nearly all metals.
TO PREVENT RUSTING or NAILS. Hivges. ETC.
13.-1 phat of liuseed oll, 2 ounces black lead; mix together: Heat nalls cel-hot unal dip them in.
amoUnt or lalint negumben FOL A GIVBN SURFACD.-It is m,ossible to give a rule that will apply in ail cases, as the amonnt varies with the kind and thickness of the paint, the kind of wood or other material to which $t$ is applied, the age of the surface, etc. The following is an approsimate rule : Divide the number of square feet of surface by 200 . The result whil be the number of gallons of liquid paint required to glve two coats; or Jivide by 18 , and the result will be the number of pounds of pure ground white lead required to gire three conts.

## gllies.

(Iiquid Glue). 1.-Dissolve 2 pounds of best pale blue in 1 quart of water in a covered vessel, placed la a hot water. bath; when cold, add to it 7 ounces of commercial uitrle acid. When cold, put in bottles.
2.-Winest pale orange shellac, drozen small, 4 ouaces; methylated spirlt, 8 aunces ; put in a warm place in a close. ly corhed iottle until dissoived. Snould have the consistency or molasses. Or. borax, 1 ounce; water, $\%$ pint ; shellae as before; boll in a closely covered ketthe unth dissoleel ; thea evaporate until near!y as thick as molasses.
(Flower Gum). 3.-Very fine white shellice mixed with methylated spirlt in a stone jar ; slake weil for $1 / 2$ an hour and place by a flre, and slake it frequenty the first day. Keep in a coor place. Leare the camel's hair brush in the gum. הerer fill the brush too fill and gum the petals close to the tube.
(Gum for Labels and Spectmens). 4.-2 parts of sum... arabic, 1 part of brown sugar ; dissolve in water to the consisteacy of creza.
5.-5 parts of best glue sazked in 18 to 20 parts of water for a day, and to the liyuin add 9 parts of rock cands and 3 phrts of gum, arabic.
6.-Good flour and glue, to which add linsend oll, varaish and turpentice, $y /$ an ounce each to the pound. Good when labels are linble to get damp.

TO PHFithNT ROILERS FROM FILIITG WITA SEDIMDNT UR SOALD-Wisercise care to get clean water and that which contains little lime. 2. Elow it ou! often. It cau be

