## BRITISH - CONDITIONING " METHODS.

IWILl. try to tell you hou. .tt a small mland country mill, sthated in a purel? axmaltural dantact, the wheats of Europe, Ava. Atri, a and America meet, and are cleaned, and blended, and conditioned and arc lim. atized till the kolden graun of Califorma need count it no dishonor to meet death sude by nde with the darkent skinned, and once deapmeer', prosluat of our Indan empire: and the a weet. plump treir! of old t.anghand need fear no contimunation of its irtues from comtat with the ill-reputed wheat from the t.and of the plouriaths, at they lie side by ode auating a common doxm. It in scarcely netcondry to refer to the fat that the tirst operation is performed on a warehouse separator, which removes the larger rubbinh, such as stirks, strans, big clots, etc. And now man calls in water to his and, and of all the means and processes rinployed to clean whea there is not one so sensible. so natural, w) effertive and so cheap as that of washing. It is sensmble and natural, because it is precisely the course that common-sense points out in any man as the proper way to clean almost angthing and evelsthong. We batl clean our hand before we dine tordat. shall we get a dry bruhh and serab them" If wo. I am, afrad dinner will vanil ix.fire we shatl be preerentable at the table Vo, we shatl iminerse them in water. and with a litile frum the thing is done. lust we whth whe.s, a plunge mate pure cold water and the dirt begins to itplulate at ance. and when the wheat arnes in the auck there in a muth improvement in it appearanie as in that of a captured street Arab after a bath. And when 1 .an told that there are mills using foreign whent, which io-day have mo washers in them. 1 sumply sit, "I cannot belicie it'

It is quice unnecessary to describe a washer: , utfice it to say that there need not le the slaghtest difficult! in choosing a good one. I moht abnost ons there would be more difficult: in finding, o bad one. Vind, I wil: a washer: sne that removes all the lowse, and the com parativel lexse. dirt, and of course the stones, not merely a damper for thor, though deubtlen it sumes at useful hetie mat hine. has, no phate in the - ? vem I tom adsocating todas but. whatever mathine on edopted. remember this, that in . shumdint cuppls of pure frech water is aboolurely nereosous for wuccen the proxere
 begin th phen foremont part the wfare and more
 Amencan and Komotn thould at omere premeed to the heater. but the rumer and tintire der riphom, in has Indians. Fixiptians, serian and hard thatana, are improved by a few howire inters.d io permit the water to penetrate into the metwor, in the fonner kind, this in sufficiently well done in the antunusus proces. The object of the heater is not widr! the wheat. but to dree the inolsture of the berra, whether it ixe natur, if is it as in the case of E.ngh' . or artifically introducedas one of
 the outsde, therebn leximeming not onls any remaming dirt that the first wabhog mat have falled to remone. but also the fine outer skin of the berr! welf: in thin condition her. porit, in fat pernpiring profusels, it in introduced to the- whurer, where anthing: from ompl) remoning the dirt tualmont winming the wheat an le perforned: it in then paseet through a powerfal e whats. to ciear $i$ of the offil the sorurer hio det.at hed, to the comler, the real drier of the prowes, whith is it most effective pultier, alm, where mer! whe of wett or moserure in remoned. . Th the liene partioles of offal which mas stll is found adl.erme th the wheat berry are here effretualls detar hed by the per ular motwn of the gram is it dene end its rigade course and effertmalls remoned. and the wheat. as far ar it conditoon is
 the first break woll. It is Aho eppalll. ready for swo axe in ulow till wanted 1 on out oun purt we recom mend. and, a far as puondole. pratatice the cominues
 with as littie interial as pmothle. for it undoubted! 1 .a fart that the wheat , neter ax:an in wuth perfeetly midel and kind temper and conditom av it in at this tage. breaking freely, yielding clean, broad hran. and oonsequently allou ing only a minumm quantity of offal tw ket threngh the motary sealpers and into th: keneral ystem

Having briefly described the process, let us have a look at the machines engaged in it. Nou we will de send from the didat tic to the descriptise, and bexm with the heater, a mat hine whith, though of very early urixin in the wheat comditioning epon h, of entirely home dengn and home manufat ture, is still doung work todat whith we in our oun evperience hate meser seon surpasoed. What wour principle: Simply thit of the I urkish bath. Thar heater convint of a serres of ateampachetert inclined plates or (ras). arranged wer one another in aseds form, and suppended between hollon columns which serie lxith as supports to the phater and conduns for the veam. Fiath idate is furmbed on its upper side with adjuvtable strickling ban or lowies for regulating the thickness of the stream of gran. A hopper is plated at the top of the inachine, into which the arain, after being washed, is fed, and thence travels at : pace regulated to the greatest nicety b) d valive at the outlet, and in a thin sheet of from three quarters of an inch to an inch-and-a-half in thockness, down the upper surface of the plates, and under the stricklink bars or lourres, being turned completely over in its passage from phate to plate. 1 emp prectely the wtom of the oldfashomed kiln. evepting that in this tare the manual lalnor required on win the pram wer in applamed by sutomatio means Dixtharged from the bathere, the wheat in then handed aner to the are of the soourer, but lefore dew ritheng the operatom and effert of tha nunt "reful and eיvental mathone, whit for our parpose re quires to be in some respects of $\frac{\text { pecial design and con- }}{}$ uructuon, let us vee what has happened to the wheat in the heater. We bave akened cur proxens to that of a Turkish bath Are we adhering to the conditions of this humanly healthy and physically invigorating proinst us ee The wheat has been well saturated in the washer, and the liose and extraneous dirt dis persed and disspated, and what is supposed to be the (omparaticly , lean berri introduced to the series of hot romons represented by the riscag beater. Fath plate of this furme a hot romin, and as the wheat is intio dured twe.th homm successinely, it periphere more and inure freels and when theache, the outlet is not only hot and mont and clamm, but has an amount of der unin it , kin, which. if nut remoned, nould make at le.ar. longht four from patent to lou grade absolutels mpar, whe. and that this desideratum is attaned we can prote to the noutert iseptic that ever handled a spatula.

1. 1 in return to the theat, for to keep it wation in its prewem prome condition would be to lose the polden "pportunty of the whole proxess. We hase $k$ 'm to the and of the hot iomon stage. and the patient is walung for the vigorous attentions of the attendant rubber, and in the meantuine is jealously suarded from draughts or breath of arr. which, whether hen or coid, would tend to dry the thin and close the pores, and make the value of the attendants seruces comparatiocly nil. We do not mind the upper surfaces of the heater trays being open and exporsed to the surrounding atr, sol that some of the spor may of neelf nise and disperse, and perhaps a light suction here mught somple carry this vapor anay "thout milutung akainst the kownd effects, but we trongh objert to amb means for drawing the heat through the grain: the heat must rise of itself and find its own way through. on in the old kilns, to produce the newomery ineat. Sinn for the rubler Well, that is our courcr, and wha a patient in such prime condition the work weany. and the reoults to any but an actual eyeutinew almont Iryoud belief. The uheat comes out of this mat hine still warm, but beautifully brght and ciean and hedthy, the separited lire and fuff. the nuter skin has in: gone dire th from the coourer to a conneyor whith ches it inte the mill to be automanaly mixed with the bran or pollard moot sutable for its company and complevon. The wheat must nou the finalls dried and purtied, and the sentle actoon of the rooler effert, this purpone and attancthisend. The general ronstrue hon of thiv inde hine is dimilar in that of the heater, but the plates, ir trans, instead of being hollon and filled with stean, are perforated, and a powerfill fan dransa eentle but abundant , utien of air through these per forated plates, and through the thin streain of wheat wheh is genely traselling down them. The wheat here, as in the previous mashine. is turned rompletels over as th pasev from plate to plate, and its upper side is free
and unimpeded, and open to the fan, wo that any of the particles of the dirt or skin, kosened by the preceding treatment, "hich may still be found adhering to the berry must inevitably nous, by the rexular and complec turn wer of the stream of wheat, be brought into a posjtoon facorable for the fan to at upon them and carry them an.i) This mathine, then, is not only a cooler and a drier, but, and mark this as one of is best quall ticatums, t is a purtier alos.
Having nou brietly dercribed the pion iples of our susem and the practical means by whith we carry out thone prine ples. let us consuder some of the adsantages to be samed by their ddoptuon. first and forement, a practically unlimited choice of the wheats of the world. Hard wheats can be made mellow. fints turned into Hour. woft wheats can have their superabundant monsture eliminated and be brought to any degree of dryness, and all wheats, hard, medium or soft, call, so long as they are inherently sound, the rendered absolutely clean and fresh and pure. Further, by this preparatory process the work insule the mill can be sunplified throughout by reavon of the fact that the onost baffing offal a miller has to deal with, the flutf and beeswing oraped off the brann! ade of the whe.t berr! by the bieak-roils, does not get into the ontem at all The piner required is reduced. the revulung produt in inatiulath mprosed, the thar isem; tronget, berghter and purer, and the wifish are offils wdeed. Then again, this proxess enables the miller to attan to what, doulaless, as a miller, is the height of his ambintom, the reputation for reliabiity and regularity in the quality of his flow. He needs no longer be the $\mathbf{i c u m}$ of such circumstances as the varying supplies of an erratic market or the constant changes of our uncertain chmate. Does Russia prothibut, then America fills the gap. Does America fall short, then India comes to the front. Is India faminestriken, then from some unexpected yuarter of the klobe supplies powir in. All the miller need want is wheat, sound uheat. and given conditoms ard means, such in principle, but not necessanly in detall, as we have dex nived and the the weather wet or dry, warm or cold, his wheat from eastern hemisphere or west, the resulting Howr thould te suchas would nrokiuce a loaf as fine in Hinor as the fantudoms pulate of the workinginan can demand. and there s not a more fastidous enth, or a finer judge of the cuadit! of the staff of hife than the zoiling millous with whoms bread is the staple forex, and the thour vomidid alu, s? beld as man! of such sweet, nutrthos loases as the mont anvous baker, whose badable ambtuon is $w$ pay his wis, and make a provision for his old age besides. hise any unquertonable right to expect. lurther will, the sysm insures an enomous saving of poner, and whodere not devre this:

## hamdy to have around.

Dii) it ever occur to our miller friends, says The Millstone, what a handy little tool a muffed mallet is? Every miller should te the ow ner of one, and it should be his constant companion when making the rounds of the mill, and with it give even chop or meal-spout a tap on the under side as lie geisses it. It will make no nonse, nor will it in any way injure the spout. but what a lot of troubie and loss of tume ut may sase: spouts ss frequently reminded of this duty in that gentle but somewhat forcible way, are not very apt to choke; in fact, never. unless suddenly wercrouded. If the millers will provide themselves with such mallets, and diligently use them a while, it will somon become a habut which will (ling wo them and make them ieel lonesome without their companion, should they happen to forget it

## A NEW PLOUN PROCESS.

ACEEK IIA.: xcientist has patented a process whereby a flour contaming 90 per cent. albumen is produced from wheat. It is clarined that is easily digested, and can le kept -ny lengith of time withous spouling; that it is as mourishing as dred white of egk, and will take the place of the allumen nou obteined from oneat and exks, and can ine supplied at less cost. If the cindized people of the world will nous depend upon ordinary bread for starch, whole-meal bread for phosphates, and the new patented process for their albumen. three constituents nerrsary as human fond, can le supplied by millers, ia which they will not ibject.

