# PROVINCE OF BRITISH COLUMBIA. 

DEPARTMENT OF AGRICULTURE<br>(WOMEN'S INSTITUTES).

BULLETIN No. 41.

## LABOUR-SAVING DEVICES IN THE HOUSEHOLD.

## - Hin

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PRISTEW HY ICTHOHITS GF


VICTORIA, H.C.


The Homommble Price Ellixom. Winister of Agrienthere.

Sit,-1 have the honour to sulonit leqwaith Itulletin So. 11.
 behalf of the members of the Winnen's lastitutes.

I have the henour to be.
Sir.
Your whedient servant.

IIM. E. NOOTT.
Ihepitty "Inistor of A trimullame
Silperintewdent of Iustitutes.

NOTE.
Information as to where the appliances can be purshased to which reference is made in this bulletin may be obtained from the local Secretaries of the various branches of the Women's Institute.

## LABOR RSATING DELIES IS THE HOLSEHOLD.

1





 are often disminsayl as "ald fogeles," ont of totefi, as we sity, with

## THIS PRACTICAL AGE,


 leNs. What is fresentalay practiow lout the application of

EXPERIENCE AND KNOWLEDGE ACQUIRED BY OUR PREDECESSORS?






## "UP TO DATE"

than the fullowing quetation from his writiogs? "Kıanleqlate" he wrote, " is

 larmony:"

## "GATHER THIS EXCELLENT DEW OF KNOWLEDGE,"

Ife continneal: " it is a rich store for the reliof of man's estate " : using the



Now millions of wometi devote their whole existerne to thin

## NOBLE WORK OF "TUNING UP THE HARPS" OF OTHER PEOPLE'S LIVES:

but the " rule of reasan" has leqen sparingly and imporfectly aprifed to the

 women are quite aerastomeal to the fact that this is common practioe in all
 latiol for owerome.
" Is it was with onf great-gramblathots, so it mast be with us, abel son it shall lae with our great-grablehildreat" has lwed their refrath. whemever the actaal duts, as well as the alvantages of reforms in the art of housa keqping have bext urged byon them.

The conviction that

## DRUDOERY IS NOT ONLY INEVITABLE, BUT BLESSED,

has been the crroneous consolation of many a tired lomsekeepur. Labour should to a jog, not a burikn. Wepe this same overburdened worker but to "gather the excellent dew of knowledge" now to be found at her very door. she could lift her round of dally dutios ont of the rut of "patient, conduring labeur" (which is the literal meaning of the word "druigery ") on to the lesel of an interestiug. highly skilled, as wefl as less exacting, oceupation.

Mlss Tllda Gakley: Warden of Klug's Colloge for Women, Thisorsity of Landon, where a I'ulversity Course in Hone Neteme and Eonomios is well establishod, has summed up concisely and appopriately the point Francis Bacon tried to impress upon honsewises in the reigh of Queat Elizabeth: "We fuerease the pencer of vision finto the most meemsang tasks of daily lifetenfold by develophing the brain behitul the egees,"

The fact camot be tow often cmphasiged that, just as muctl as the

## FULL FORCE OF HUMAN INTELLIGENCE IS CONCENTRATED

(1) the modernixing of onr domestio adtritios, too long dominated by the sway of anchent castom.

As a matter of fact, the dotails of domestio duties are infloitely more varied and demand a higher degree of intelligence than do the callings of stemograpiser, shop-sorver, or factory-hand, whish apyeal so strongly to the young fomale mind to-day.

The apparont monotony of domestic work is, in part, the outcone of our failure to utilize for its illuminations the resonmess of montern knowledige,
 mutil they seem coulloss. But the work can lee lightemed. the perpwtual repetition made far less wearisomes, if this liden of their objoct, "the tuming-10. of the harpes of bomain tives, lwe kenf in slew, A fresh interest is lent to the most familiar "chore" by endeavouring to utilize in its ferformane the new suggestions and atpliances bew at our divqusal.

## EFFICIENCY

 and the object of her pratiles.

Nhe must be herself efficiont: that is, tralame in the krowleylee of elementary wotentitio jribeiples, so that she can to some degreq control her equilitions. instenad of finding lewreeff their belplewe victim.

Her equipment mant be efficient. whetler it be for cooking. donnlug. serving, or sewing. The lutter the workman, the more he realizes the worth atal exolathy of gomel tomis.


"SAVING STEPS"
is the title of a bulletion for the farmare wiven of Sow York States pmblisheyl loy Cormell I'nisersity, I.N.A.. bore than ten years atso. Where its wise suggestions have been adopted. lives have beell sweetened and prolonged. heatth has lewo fmproved. "family fars" have diminished, and the standard of trying las treen raised in countless homes.

What was Its text？Why，Jiant this？The he⿻日土 for mote fatelligemee athong the womely of the Ntate in the eqree of self and others；the thesessity
 the duty of saviug strengil）lyy enaplogitug the means now at hame to lighten their own labours as well as 30 promete the lewith of their homselobles．Thepe is sevither

## VIRTUE NOR ECONOMY

It making a slay＇s work monotomoths，when ly the exproise of infelligemee it

 rescention．


## BULLETIN ON LABOUR－SAVING DEVICES IN THE HOME




 the limitations of space，it san lev stadied tor most manatage if divideal into
 that theit plawe is one of other of thest．





 I＇rovitues．
firunp I，will deal with

## DEVICES OF MANAGEMENT：

 in which mental offort is the jemmoting foree：in which，to tuse a bohedy ofd sagting．＂the lomal satere the luedr．＂
fixoup，II．will calmprise

## DEVICES OF EXPERIENCE：

Shose which have lecoone mote of lese habinal．leecanse their ablvantages have forcel themselves upan the worker in the cantree of her dafly routhes．They are tuast acearately descrilesh as has result of that practioe which gradually tuakes jurffet．


 these bolletins are primarily written for the information of those living away
 the fact that．In the nemr future，the utilization of the electrie curtent will constitute the greatest labour－saving device in the houselioh as elsewhere．

Advertisements of these

## DEVICES OF EQUIPMENT

bow appear quite frequently in the daily prexs; but mont people feel the want of reliable guidance in their selection, doubting the wiselon or evonomy of their purchase.

It is to be hoped that before sery long a

## HOUSEKEEPING EXPERIMENT STATION

will be extablisheal in C'anada, correspunding to that at I'asidenat, Cabliformia, I.N.A., where Mr. Charlew Marmard and his wife devote their time to towting bew labour-saving deviees as they come on the market. For a mominal fies, candid advioe is given to would-le purchasers as to the most advablageons selection to make. This is a truly practioal bit of work, esperchally as the results of the tosis are summarized in bulletins, for the guhlance of all who care to Eather, for at small sum, the "excellent dew of knowledige" not only collemed but stored by these progrossive experimenters.

## GROUP I.-LABOUR-SAVING DEVICES THE RESULT OF GOOD MANAGEMENT AND FORETHOUGHT,

This group must be sulbilideded futo two divisions: (a) Those which a all for the co-operation of the other members of a househohl. and (b) those whifh are the ן"tsonal concern of the bomsewife

 for once attention is directed to them, many more will shitiont themselves or Ife rescalled to mind.

Eirumple (I),-The provislon, Just matside the entranev-dowr, of howks.

 dunt may be brusbed or whisked off buots before coming indores. The relueval of much imbor dirt will thus la, naved.
E.rample (?),-The vastom of intelligent Alivision of labour among the membets of a family in washing-11p after meals; one shonlal sorape the platex atal pile them, amother should prepare the lowl of water and wank them. a third sloula rinse and wige; though, where a plate-frather is used and the washing is carried out in very hot water, the lahour of drying is saverl.
 it is a strictly latuonr-saving device. The lual is letter and more quickly mates. while considerable ewobomy of energy is the result.
 beds, putting away clothes, shotting drawers, enptying slogis, otc, When attention is regularly given to these details by the occupant of each bedroom.
 of Iabour.

Eremple (3),- Kach membey of a loouseloblal shoulal be trained fa shake out, fold meatly, foll into a bumdle, and bring downstairs the soiled limen of the week on washing-day. Its collection by one pair of feet and fobling and carrying by ohe pair of arms and hands is thos saved.

Earample ( 1 ).-Thought in the arrangement of the kitchen, a point well illustrated in Fig. (1).


Fig. (1).
Nowe.-The window immediately above the sink, so that all waxhing and cleaning is done in a gonel light.
The portable, airy, metal samequan-stant to the right, where pans can lee placed after washing, without stirring from the sink.
The comveniently plased shelf for the washbowls, used for glass. chinat, amb silver.
The towet-hansers above this shelf, where the choths are ready to hand, after seabling and drying, if possible, in the opeot air.
The pan mbler the simk, into which soilest clothes can be dropped.
The brushes, mopis, plate-secapur, soap-saver, ete., sach furnished with a ring and lung from a lowo on the sheif to the left of the sink, where, from the pasition of the windows, there is alon a free current of air.
Ghserves tow, the order maintained on the shelves to the left agath, above the titeleses conker.

Neatly arranged of the lowest shelf are all the cleansing agents useed in the honse soda, anmonia, whiteninge soap-jelly, somp powider, satt, turpentite. linserd-oil, formalin, ete.

Alove are the kettles in constant use, quact and piat measures, tea and coffice pots, vte.

On the third shelf are the pans and kettlem only oreasionally wanted, the fisht-kettles, wes.

Above, again, are the mortar and pentle, the thermos thask, the ghee-pot, and one or two thore cobventones, also for occasional use.

Fig. (2) shows a portion of the other end of the same kitchen. The china cophoard, with its glazad, slidiog doors, is the principal object which attracts the eye, protecting, as it does, its contents from dust. However


Fiv. (2).
carefully a kitchen may le kent. the mere walking to and fro of the cook monst inevitahly grind off dust from the flowr. besides the time dirt dispersed when attending to the tires. This cuphoard is neat to the dow which opens into the livius-rom, and a slimper can be canght fletween the legs of the table) of the wheel-tray, on which all that is needed for a meal can la taken in one jouruey to the dinins-talles. To the right of the illustration is the kitchen cabinet, which will he deseribed in detail later on.

## A Coxumant ind Eonosteat. Lamber

is shown in Pig. (3). Pixpertene has contimmed the vatue of such a laviler, where trouble and expense call for consideration. Placed as it is on a north verandah. Just outside the kitchen-doner. it is ceonomical of steps and economieal of money, tow: for the foral is kept under ax kond conditions as are available in the alisence of iee. It is constructed of four fly-proof doors, carefully joined, so that all insects are excluded. Its spachous shelves allow froit and desserts, beat, milk, and butter, ete. each to be stored at a separate level, and in a thorongh dranght ; indeed, the larder is raised 6 inches from the hatcong, in order that a free current of air shall pass beneath it as well as all ronnd and through it.

The pails and lids from the tireless cooker will he moticed on the hettom sheff: these are emplosed not only for conking purposes, lint each night they are filled with loiling water and stored away in the cooker, to furnish a supply of vealding water for use in the early borning hefore the fire has burned up.
 they would include the eqblectlon into at large banket of all ormaments, lowe books or gajers, ve., in a ramin which is to lee cleaned. su that all can le


Fi6. (3).
removed in one journey, thas saring countlens stepos to and fro; the use of large dust-sheets, with which all furniture can be covered before the room is swept : the protection of the hair in kitchen and house work hy wearing a suntoonet or large cheloping cap, and so onl. Attention, therefore, will now lee directed to

## GROUP II.-LABOUR-SAVING DEVICES THE RESULT OF PRACTICAL EXPERIENCE.

Among these, the selection of china and kitehen utensils in the light of experience may be given a prominent place. Many goung housekeepers start their career, prond of the wedding gifts with which their shelves are furnished: gifts tow often chosen for prettiness rather than for striet utility; neither are they always jndicious in their own purchases,

> (torotmon Examim sm;
for instance is the most attractive but experience soon teaches its shortlived efficiency. 'racked and chijped enamel is unsatisfactory for the consumers of the contents of such damaged pans, which are also difticult to cleati, as well as no ortament to the kitchen.

There is no comparison hetween the ease with which graniteware or ahminimm are lifted and cleaned and the labour exacted by fron pots and pans: yet the length of life is well-nigh equal: and, in the case of aluminium. much less time is required for cookiug processess.

## 

so it may not lie amises at this point to impuire why all women do not insist that satueqpans be made with "Iips," To pour somp, or salue over a "Iip" ensures cleanliness liecanse the stream thows in a direct channel from one vessel to another, accoracy is secored. and much unnecessary cleaning of dirty sancepan-sides is saved. Or. to give a further illustration of this point. why do mot women decline to purchase milk-pans or double boilers which are seamed? All utensils in which milk is to be stored or cooked should be rombed within: the satving of daily labour is enormons to those who possesse such intelligently constructed pans.

To rinse ont a donhle hoiler with cold water hefore its use for cooking milk certainly facilitates subsequent cleansing: but why not reduce such cleaning to a vanishing-point by insistence mon a shape adapted to the purpose of the utensil? Then, consider the


Fig. (4).

## Choter of C'ilisi por Damy I'se

Illustrations of sount and fung dexignex are slanen in Fig. (4). A fluted cup:-who has not sighed over the the spent in the cleaning of those thutes? A jug with ornamental hands, into the creases of which dirt quickly creeps, lut from which it is slowly dislodged: Compare this design with the jug in the centre of the groug; this is easy mough to clean. exeept the hande. which might advantagoonsly the more simple. The jug to the left is included lnerause, with its neck nippesl ith as it is, it is mosnited for the very purpose for which it was made, the reception of milk. All milk-jugs should lee wide. mouthed and straight-sided, so that a mop can he evasily introduced and freely used. Fig. (5) depricts a swoup of

## L.motresabing Abtictus

which ought to find a place in every bousehold. Fire-proof china, for instance, is hardly known in British Columhia, yet, in the Old World, no housekeeper


Fiti. (5).
of experience would be without it. She appreciates ton highly the advantage of being able to stemin, stew, or lake fund in the dish in which it can go to tahle. The colouring of rich hrown or ereen is pleasing and artistic, and the highly glazed surface makes it easy to clean. If. by accident, a dish is "burnt." every trace of discoloration can lie removed by soaking for a few hours in salt and water.

Another great economy of time is found in the gradual collection of a towel ussortment of reall" sharp kitchen-knives. There should lue two butcher's knives, larise and small, for cutthes meat or poultory into joints or other divisions; two thexible knives, also of different sizes, for mixing pastry, cakes, etco, and for scraphe out the bread-mixer or pudtling-lowis: while at least one small knife for paring and choppong froit and wegetables is a necessity, not a luxury. A knife of distinet shape. with its own home, should be provided for obions, shallot, or garlic: besides ohe or two ohd table-knives for ould purposes.

A wise saving of labour. fow is fonnd in the possession of a dezen or hore whitechina hewis of various siges. Half the mumber thay lee quite stmall. just to hold the "lefteovers"-a few spmonfuls of onion or bread sance, or grays, or sobl, or stewed fruit or presorves, which, added to some " made" dish, just give a suggestion of agreeable thavour, appetizing and heathful.

## The Most Nuccensfte Koups, Stews, or I'tmbinges

often owe their attraction merely to the intellizent addition of one of just such odds and ruds. Xo cook worth the bame ever dreams of wasting these leavings; she knows their value too well, and counts them as a constant source of economy, for they euable her to utilize otherwise uninteresting, though wholesome, remainders.

Many might the the usefol experiences exchanged on the subject of

## Laboch-sanine Imyices vor the Removal, of Dhrt,

Whether it be suilings on the stove, stains on china and saucepans, or dust on furniture and floors.

It is perhaps too commonplace to remind readers of the value of an instantaneous sprinkling of salt over spillings of any kind on the stove or in the oven: or of the desirable self-control which leaves grease to cond on floor or in pans or siuk, when it can be easily peeled off with a tlexible kuife. Instead of hastily deluging (and Incidentally spreadiug) it ly the appilioation of hot water.

How few people trouble to provide themselves with small iron rings to place beneath pans on the stove and so save themselves the cleaning of

## Burnt Naverpans:

but probably all of us know that if at stew or soup, "catches," much of it can be kept eatable if the sancepan be instantly plunged into cold water. The quick cooling of the contents of the burnt gan checks the formation of steam, which otherwise would rise up through the whole of the liquid. carrying with it the objectionable "burnt" flavour. When emptied, the pan should be halffilled with a strong solution of salt and water, and left to soak for some hours, after which it will be cleaned quite easily.

Many an experience could also be exchanged upon

## What to bo whiks Thives ee Whoxg.

in order to save the time and material expended on the spoilt dish, as well as the labour and expense of proparing another one. Curdled custard, for instance, may often be converted into a usabie sance in the following way :-

Mix two level tablespoons of corn stareh finto smooth paste with cold water or milk. Ntrain the curdled mixture into this, stirring it the while to keep it smooth. Continue to stir, after returning to the stove, until the sance thickens and hoils; an extra egg stirred in, after removal from the fire, will be an improvenent.

To take another illustration of this point. Kometimes a hastily made sance will become oily instead of smooth. To make an oily sance smooth. take it at once off the stove, add a little cold water or milk, then stir it over the fire until the first signs of boiling appear. when the pan most be drawn to one side of the stove; for were the sance to reboll the "oiliness" would recur, and instead of saring labour, extra time and trouble would have been wasted.

At this point it is tempting to introduce hints on persomal experiences of
The Connection between Postube and Economy of Health, Fatigue, and Time.
U'nfortunately, the limits of space permit of but one or two suggestions on this very important branch of my subject.

Try the effect of raising the kitchen-table and ironing-hoard on wooden blocks 4 or 6 inches thick, according to your own stature; and estimate the saving you have effected at the end of a week in back-ache, cramped lungs, and tired shoulders. Then ask yourself why women have suffered so needlessly for generations from the use of tables of a height admirably snited to diners, seated monis comfortable chairs, but quite unsuited to kitchen and laundry purposes, when the user stands, not sits. Notice, in your own case, the leetter position of chest and shoulders when standing at the raised table, good for lung-expansion and conseguent blond-puritication, with all the assoclated advantages to health and efficient work. Add to the kitchen furniture a high stool-see Fig. (13) -on which the weight of the hody can be supported while carrying out many details of a cook's work; and then try to calculate the saving of energy which becomes available for other purjoses.

To explain the whole significance of this question of posture cannot be attempted in this bulletin: we must pass on to another bousehold detail which presses heavily on most housewives, viz. :-

## 

Were feather dusters mot seem on sale, it would be incredible that a demand for stoch useless, abominable, labour-making articles conld find purchasers in a country which calls itself frogressive. These feather lrushes merely tilek the dust into the air. from which it presently settles down again on the very surface from which the thoughtless honsewife inagined she had removed it. The most enlightened women, seseligg for themselves how much dust is scattered by even ordinary dusters, have for some time past provided themselves with squares of cherse-cloth as substitutes, which they sprinkle IGhtly and discreetly with coaloil, "These in Gne" oil, or some similar preparation. By this means they do, to a large extent, remove dust from their shelves and furniture. But such dusters cannot be used for china. glass, or metal surfaces, neither can they be washed.

In an increasing number of houses, therefore, these substitutess are leling replaced ly what are known as

Dustless Iucitas,
which have been treated with some chemical prepsaration, so that unt a particle of dust is dislodged even when the duster is shaken or heaten, until the limit of its capacity to boid dust is reached. Theft a good waxhing with soap, and hot water restores it once more to its full worth as a dust-remocer and not a dust-scatterer. These dusters polish glass, metal, and china as well as wood. and can be used so long as the threads hold together.

## The Fibesh Fezang of a Room foom which the Dust has max actial. \% magoved

by one of these chemieally prepured dusters is the best advertisement of its claims as a genuine labour-saving device.

The consideration of these aids to real, not aftemptcd, cleanliness leads us naturally on to the third and tinal division of our subject.

## GROUP III.-LABOUR-SAVING DEVICES OF A MECHANICAL NATURE,

Improved deriees of equipment are now ko mumerons that, unfortumately. only a few can be mentioned. Nome of those which assist in

## Effichex C'leanise of oth Hotses

shall be first passed tn reflem, thomgh onty ton tirtefty: Prombence must be given to the worth of long-handled dust-pans, serubbers, self-wringing mops, carpet-sweegers, and small vacuum cleaners. These all share two advantages :-
(a,) They save the latour of stooping or kneeling:
(b.) They effeetively remove dirt when used approperiately and with intelligence.
The first comment of my readers will be: "Why should I spare myself the act of stooping: my mother worked for hours on her hands and knees, she never grumbled, why then should Iy"

Gur grandparents were satistied to trasel by stage-couch: is that a reason why we should not perform our journeys by train or automobile? To waste energy is as igoorant and foolish as to waste time, when the means are at hand to economize our powers, which then are available for some other purpose. Think for a moment

## Wilat Rtoorivg and Knbelixg involie.

 either pleased to maintain the same weight, or to lose some pounds if tou stout, or to gain so many pounds after an exhansting illuess. Very few facopile, however, realize that, when the uyper part of the body is bent forward, as in stopping down to tise an ordinary dust-pun and brusls, lalf the weight of the whole louly has to he raiked by the body itself when resuming an upright poxition.

## 

Every time therefore that they stomp down, the fndividual mudergones the wear and tear of lifting a weight of (at to io lb., which reprements a very definite expenditure of energy.

When this mergy is stored up ly the use of intelligently designed lifushes, pans, etc., not only are the results of the morning's work as gond. proliably thetter. than under the old system. lut the strengith saved is in hand to be used for other duties, or for a healthful walk, or for some form of study or recreation. The results will the alsan perceptili in more visorous lesalth and in bright, companionable spirits.

## 

before full command is aequired of the new tools: some stiftuess will bee asosclated with the use of the fresh muscles called into action by the unfamiliar posture, But the saring of fatisne and the increased efficiency of results will amply compensate for this initial jerseverance.

are of comses susceptible of considerable fimprovement. for they are yet in their infancy. But, in my experience, suggestions on these points are cordially received by the firms which supply them: and they might lee advisedly forwarded by branches of the Women's Institutes-of conrse, after fair trial and mature consideration of the article criticized.

THE Lave-Haxbleb IBxT-Pax
 are not yet set at jurfeet angle on their handees, so as invariably to give full effect to the user's efforts: and so onf.

## 

is slownil in Fig. (6). It consists of two metal thlens, screwed together. In one tuhe is an air-punp: in the other is a tine stratner. The tlat lase, which rosts on the carpet, table-cover, cushion, chair-seat, curtain. coat. or skirt.


Fig. (6).
from which dust is to he removed. is perforated with tiny holess. When in Use the cleaner is kept steady by the long woulen handle, pressed against the worker's left hij, by the corresponding hand. The right hand slidex one tube up and down of the other, a movement which causes the air-pump within to "suck uf," air throush the perforations in the case. This suction draws with it the dust, aslies, or other forms of flae dust we desire to remove.

If any witness he required to the good and effective thorough work of this little appliance. it will lee found in the restored colour of the material cleaned. If further proof the needed. unscrew the outer tube and empty the contents of the strainer on to a piece of paper-a heap of the finest grey powder will testify to the "sucking " power of the little pump. This dust is too fine and deeply ingrained to be removed ly the use of ordimary hroshes, no matter how vigorouxly applied.

A small vacumm cleaber, shich as thix, dones not remove dift from surfaces such as linoleum, ofl-cloth, or bosards: and in wet or cold weather it is an awkward prohlem how to clean thoors of these materials, when to wash them means a damp, floor for hours afterwards. It is true that tea-leaves serve to collect the dust on linolenm and oil eloth, lut mufortunately the supply of tea-leaves dons not ulways equal the demand. Personal experience has shown the economical efficiency of

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now on the market, small quantities of which can le advantageonsly sprimkled on the flow before sweeping.

It is surprising to see how in good preparation coblects and holds the dust. It must be applied with a lard brom. the heavier the letter. Ohe of these preparations is used daily on the cork linoletin of a passogeway and kitchen in whish there is much traffice of meris mailed boots; the surface is left almost as clean as if scrubbech, yet mo kneeling is called for mor any water reynired.


F16. (7).
Another incalculable labour-saver is shown in $\mathrm{Fig}^{\mathrm{F}}$. (7),
A Whafl-thay on Tra-wales.
This can be made at no great cost of the or material. Everything reyuired for the meals of five or six prerons can be wheeled to and from the diningtable in ohe jonrney from kitchen to living-roon or verandah, with no strain on back or arms, and with a saving of countless steps. The tray lllustrated was made as an early effort in the art of carpentering. The dimensions are given in Fig. (s). The wheels of a child's mail-cart were used to support the
front, and strong castorss were fixed to the teges at the back. The wagon conld be firmly secored with screws, though, in the case of that slown in Fig. (x), woulen jugs were passed through the johints.


Fiti. (s).

In the first phace hass thet the day arrived it which a smatl lamuley fitted With waxhing-tachofe and magke slould the built in connection with exery home? Sow that we are fully aware of

## The 1thal. Coxnthtenta of Ihem,

It is unsavonry, not to say objectionable, that clothes more or less saturated with organle dirt from the skin and other sonvers should be washed in the kitchen, the phace above all others ift the house where the most scrupulous cleanliness should reign.

Tiif. Hianmane of Htary, Wer Smats
Is the canse of conslideratite titheath among women and young girls, Nobe of this weight-lifting is saveel and the washing better dones at a cost of onig. a few dollars, by the use of a washing-machobe with wringers attached of obe of the small, cheap, and effective suction washers lately put on the warket.

> A Maxame sates much Inoxing.

While the good appearance of sheets, clothes, atal toweds when well mangled maintahis a high standard in demestic details.

Certalin artictes must, however, still be fromed, athel Fig. (3) Nhows

 keepoing. These "sliphos " are tate of nekel, of which the surface is always bright and smooth. The leated iron is held in pusition by the springs, which are quickly fastened inte their respective catches, Once used. the worth of these "slipoous " is fully realized, and their cost is very small.

## Ax Ancollot. Inon

 this iron is a tiny tank, from whith gasolene of worl-alsohol passes finto tuhes within the frame of the ifoh. Once the gasolene or alcolool is set alight.


Fifi. (9)
this iron reanias hot, withont further attemtion, for two or threw bours. It can be dixed equally well in any rom, or ont on the coml, slady verambla in hot weather. Here is a wealding or birthday peresot, fubeal, worth the giving and reseiving,

It is, hawerer, in connection with
Kmene: Equipars
that most deviees are at present available to inerease the eftledeney of daily doings. The gradual collection of those bew to be mentioneal is strongly
 further improvements.

## 

must lee again given a promineot place among equipment for efficiency. Fig. (16). Fenal prequreal in a good make of coobep is wholesobue athe relieves the cook of much troulle in supervision. Eispecially is this so, in the case of stews and roasts. of conrse, the respgtacles must be kept cleans but if they are promptly washeal ont after the removal of the cookliggails, the tronble ts very stight. It is also a gund plan, tow, to rub an wiled rag over the seams of the cooker obee or twies a week; rust is thas entirely sontrolled. When choosing a conker, select a make with ronuded rather than sharp edges and



Fis. (10).

must also lee again thentioneet, fior it combines ctlicient work with much saving of latomr. A useful form for steaming rices, vegetables, or meat dishes is shown in Fig. (11).
（3．）Paplb－hag Cookbisy，
 labur－saving devices in the kitchen．


Fin．（11）．

 house，thomgh，in futures reaters are stromaly adriayl to purchase seabless and rombled boiters，or at least to prese for their pronlaction．
(5.) A PIATK-RACK.
one form of whith is slowst in Fig．（5），cyonosmizes time and clothe when
 cren the humblest homes．

## （6．）A Ibeab－mixik．

 clamped to the tables，it leaves looth lamals free：the kneading－rod is turnes ly the handle with a maximam of effeet and a minimum of lahour．Bread－ making becones mowe certain in its stoceses，as well as much more rapilith its ferformance．

Here is another＂tij，＂given by Mr，Charles Harnard，of the Ifousekeephing I：xporiment Station：First warm a cotapartment in the fireless cook－xtove by lowking into it a pail of boiling water．Net the dough to rise in this warmed compartment ；there will be mo risk cither from dranght or falling temperature．

## 

 （shown lying by the side of the mixer）．This litting ix used for all khats of soff hatters，for whipping creabior beating egge or satues．The mixer is made． of one ple⿻丷木 of sheet steel，so that the rather tivesome crevice at the bottom of the lereal－miser is avoided．Later oh，Ho doubt，bread－mixers，too，will be construeted also in one pieqs．

> is.) A titeotp of INA+1, Insicts
is also shown fin Fig．（18）．
（ti）Pudding－boilors，－The＂Queen＂pulding－luilevs，with their well－ titting．masily slipinedon lids，are tokerably well known；but the＂college＂


Fig. (12).
phading-hoiler (on the left), Envaluable for roll puddings, meat-rolls, ete.. though equally effective is not apparently familiar to Camadian housewives. These are perforated metal cylimbers, and have for their object the same end as the eovers of the "gqueen" pulding-bailers, viz. : the abolition of the phdelingeloth, an article most mosanitary, mbless absolutely clean, and that is hard to accomptish. The eylimder of the "College" pudding-toiler is hingeed, the twe halves loding loent in position by loug skewer-pins. The pudding or meat or other roll is wrapped in a piece of steasead paper and placed in one half of the loiler: the second lanif is skewered into position and the cylimer is placed in the steamer. It is easily cleansed in boiling sonda-water and dried off.
(h.) Flour-sifter and aluminium cup-measure iomplete this group of kitchen convenienes, but are too familiar to call for further comment.


Fig. (13).
(9.) A Crumb-scraper
is shown in Fig. (14), which is equally serveceable in reducing cheoses, peed, suet, or bread to the thest crumbs. No more useful article is to be found in the kitchen, for its saves time and lifinite labour.

## (10.) The I'thity Cohaxn:

shown in Fig. (15), Illustrates a praisemorthy effort to replace the labourmaking sieve. Koups, unfortunately, must be strained. jellies or preserves must be freed from skius anial sevels. Tor rub such substances through a skeve involves much time and much work. In this metal colander the perforations at the bottom are an fine ax is the mexh of most sievess. Inside the bowl a broad. bent blade is fixed, which, as it is turned by the hatulle, presenes the lignids or pulp very rapidly through these tiny lobles, leaving the colander coated whilin by the skins and seevis. An elastic spring allows the blade to be released and remosed, when the rombled bowl of the coblander is casily cleaned from the debris. The whole proeses is quick and effertive, while the utensil is practically everlasting. The iron stambard supporting the colamber is deta-lable, so that both it and the bowl can be conveniently cleaned and equatly conveniently hous up, out of the way when not in use.

## (11.) The Noap-sayer, हте,

 advantages ; but referenee is permissible to one or two more suall. Inexpensive. but valuable, additions to kitehen empipment.

An enamel pastry-hoard is casier to kewp, clean than the conventional one of woorl. A bread allat bacom slicer-xae Fig. (5) -is another conventence, for it ensures the raphid cutting of slices of similar thickness, according to the setting of the simple fitting.


F'tio. (14).
 use a large wire basket, such as a largo size frying-lanket, as an ahi in jueling frait during the preserving seasont.
pile it luto the basket ami lower it for a few minutex buto a dery patic rontainimg lmiling water, phomging it shlowequently for a momest into vold water. The skink will then gex off the froit with the greatest eane and rajility.



is a quite womblerfal "ntel-waver" as well as an aid to eflicient work. Lang



Fit. (15).
but as a suggester of many phonsing rariations in the daily menus of a home where striet exomomy has to be practised, yet where a polnt is also made of providing food that is appetiging, nutritions, and attractive.

It is not cheap to buy in the first instance, but it repays its cost a hundredfold, as experlenee proves its value. The following are just a few of the points which ought to lee sought and found in an intelligently designed cabinet :-

The shelves are casy to kenp clean, because coated with white emamel, They are of a leight and width which allows them to be filled with jars, bottles, and tins of ordinary and useful sizes and capacity. They are also long and mumerous enough to accommodate all the ordinary cereals (rice, sago, cornstarch, efc.), and sultanas, raisins, peed, flavouriugs, pickles, sauces, spices, herbs, and so forth, which are, or onght to be, found in every wellequipped store-room. Two bins below the shelves hold 15 lt . respectively of granulated and demarara sugar; while closely fitting metal drawers can be filled with cooking soula, pepper, ginger, ete. Necessary domestic drugs are secured fin a locked cabinet. Paper bags for cooking, lamp-wicks, paper mapkins, ete. find a home in the three central drawers. The flour-bin stores 100 tb . of tlour, and a week's supply of bread is kept fresh in the corresponding, well-ventilated metal cupboard. Both bin and cophoard are on rollers, so they are moved with a minimum of effort. A deep emphoard fills the middle of the lower half of the cabinet, and is useful as a place in which to keep a supply for daily use of preserves, marmalade, syrup, ete, Alove is

 surface of the table fertion of the cabisest, whiels can be fextented on cesch





 rublar rimgs, stampes are all at hatiol.
 at kPeat cont, if the mabmer mow shitevl to lifs work.

 labuar-a







## WOMEN AND ECONOMICS.

Women, whe ate the chlef spenders of the world. aro curionsly







## TO SPEND MONEY JUDICIOUSLY IS THE BEST ECONOMY.


 Ine well th jwint out that

## THE OBJECT OF THIS BULLETIN IS TWOFOLD.





 of the peymlation of this I'rovince.

## A.ICE RAVGNHILL.





 istrufion": "Hunahesht foes," to
 follete for IIomit

## NOTICE.

The Department of Agriculture is issuing the following sertion of hulletins peremed by Miss Allee Itavenhill, Klawnizan Lake, B, C:. to be arallable for distribution among the members of the Women's Institutes thronghont the Irovince:-

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- i. The Art of Etivht Livinge
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