

Telegraphic Address : "BEEWARE, DUNEDIN"

Postal Address : Box 572, DUNEDIN

Alliance
Quality

**BEE
SUPPLIES**

....

The Alliance Bee Supplies
Co. Ltd.

1 MASON STREET, DUNEDIN, C1

Principal Agencies

Where **ALLIANCE QUALITY**
BEE-SUPPLIES may be procured

**BEEKEEPERS WILL SAVE TIME AND MONEY BY PURCHASING THEIR
REQUIREMENTS FROM THE NEAREST AGENT.**

*Inland Storekeepers are permitted to add to these prices cost of freight
from nearest Main Port.*

-
- AUCKLAND**—Wingate & Co., Queen Street, Auckland.
TAURANGA—Guinness Bros., Ltd.
WELLINGTON—Wairarapa Farmers' Co-op. Association, Lambton Quay.
MASTERTON—Wairarapa Farmers' Co-op. Association.
PALMERSTON NORTH—Watson Bros., The Square.
WANGANUI—Mason, Struthers & Co. Ltd., Victoria Avenue.
NAPIER—Arthur Simonds & Co., Emerson Street.
HASTINGS—Arthur Simonds & Co., 211 Heretaunga Street.
GISBORNE—Common, Shelton & Co., Peel Street.
NEW PLYMOUTH—E. L. Gilbert & Co., Brougham Street.
HAWERA—Bennett & Sutton, High Street.
BLLENHEIM—The N.Z. Farmers' Co-op. Association. of Canterbury Ltd.
NELSON—E. Buxton & Co. Ltd., 91 Trafalgar Street North.
GREYMOUTH—Harley & Co., Richmond Quay.
WESTPORT—Martin & Co., Palmerston Street.
CHRISTCHURCH—Mason, Struthers & Co., Lichfield Street.
„ A. E. Ecroyd, 11 Thornton Street, St. Albans.
WAIMATE—Canterbury Farmers' Co-op. Association Ltd.
TIMARU—Canterbury Farmers' Co-op. Association Ltd.
TEMUKA—Gapper & Sheen.
OAMARU—North Otago Farmers' Co-op. Association Ltd.
DUNEDIN—The Alliance Bee Supplies Co. Ltd., Mason Street.
GORE—F. S. Graham, Main Street.
INVERCARGILL—Mathesons Ltd., Tay Street.

WHEN ORDERING

Order Goods by same Name as given in Catalogue, and **Order Early.**

Write your Name and Address distinctly, and do so on each Order.

When addressing Correspondence to us, address it—

THE MANAGER,
Box 572, DUNEDIN.

If wiring us, telegrams addressed ‘**BEEWARE, DUNEDIN**’ will be delivered to us promptly.

For List of Agents’ Addresses, see **Inside Front Cover.**

THE ALLIANCE BEE SUPPLIES CO. LTD.,
A. B. CALLICK, Manager.

TERMS

We must impress upon our Customers the necessity of remitting **Net Cash** with Order.

In order to give Clients the very **Lowest Prices**, we have adopted the **Cash System**, thus eliminating the making up of the losses which are inseparable from the Credit System.

Credit given only on satisfactory reference, or by special arrangement.

Prices are Free on Rail Dunedin, or at most centres where we have Agents.

Inland storekeepers are permitted to add to these prices cost of freight from nearest main port.

Remittances should be made by Post Office Money Order or Postal Notes, Drafts on Banks or Cheques.

OUR GUARANTEE.

We guarantee our goods to be absolutely satisfactory in every respect. After examination, if our goods are not as represented, write us explaining defect, and then on our order the goods may be returned at our expense, and we will refund your money and all freight charges you have paid.

BEESWAX !

WE PAY

**Highest CASH Prices
for CLEAN BEESWAX**

Delivered F.O.B. or
F.O.R. Dunedin

*No Quantity too large,
none too small !* ———

If You have any WAX to dispose of

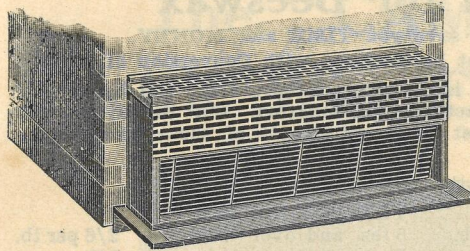
**IT WILL PAY YOU to Post,
Rail or Ship DIRECT TO US**

Cash will be remitted by return mail

The Alliance Bee Supplies Co. Ltd.

1 MASON STREET ————— DUNEDIN, C1

ALLEY QUEEN & DRONE TRAP.



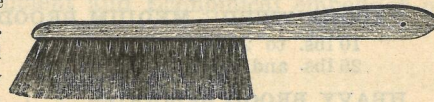
The Alley Trap automatically catches drones which may be destroyed. Its greatest use, however, is to catch the queen when a swarm is emerging. If the beekeeper is at hand, he can hive his swarms without bother by simply placing a new hive on the old stand, and when the swarm returns the queen may be liberated by removing the slide and allowing her to enter the hive.

ANCHOR RODS.

When difficulty is experienced in keeping your Extractor rigid, a pair of Anchor Rods will have the desired effect.

BEE BRUSHES (HOLTERMANN).

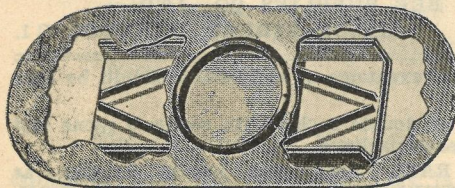
This Brush is made of genuine horsehair bristles, and is very durable. It can be washed out repeatedly, and at the end of the season will show very little wear.



BEE BRUSHES (COGSHALL).

Made of similar material to a household broom. The correct way to use this Brush is to lay it flat on the comb and give it quick, sharp lateral sweeps, keeping the strands parallel with the end bars.

BEE ESCAPES (DOUBLE OUTLETS).



In taking off honey, the Bee Escape is a great labour saver. It frees the supers of bees, so that no shaking, brushing or smoking is necessary. When placed between the honey super and brood chamber in an escape board, it will free the supers of bees in 12 to 24 hours.

BEE ESCAPE BOARDS:

Our Escape Boards are solidly constructed, being halved and checked at all joints. A slotted hole of correct dimensions for fitting escape is bored.

Acorn (Weed Process) Comb Foundation Exchanged for Beeswax

An innovation that will save you **TIME** and **MONEY**.

Exchange of Foundation must not be confused with Conversion of Wax

A lengthy period of treatment is necessary to secure the full benefits of the **WEED PROCESS** of manufacturing Foundation, and the system of exchange has been adopted to meet the requirements of those who require **IMMEDIATE DELIVERY**.

The following are the rates for exchange:—

"ACORN" MEDIUM BROOD—		THIN SUPER—	
25 lbs. and over	11d. per lb.	5 lbs. and over	2/6 per lb.
20 to 24 lbs.	1/- " "	Under 5 lbs.	2/9 " "
10 to 19 lbs.	1/1 " "		
5 to 9 lbs.	1/2 " "		
Under 5 lbs.	1/3 " "		

F.O.R. or F.O.B. DUNEDIN or through AGENTS.

THE SYSTEM OF CONVERSION OF BEEKEEPERS' OWN WAX WILL STILL BE CONTINUED, but in view of lengthy processing necessary deliveries cannot normally be effected within three weeks from receipt of wax. The CONVERSION SYSTEM applies to Brood foundation only, in lots of 10 lbs and over, Thin Super and smaller quantities of brood foundation being exchanged for wax at rates as set out above.

Rates for conversion are as follows:—

"ACORN WEED" MEDIUM BROOD. (Approx. 8 sheets per lb.)

10 lbs. to 24 lbs.	10d. per lb.
25 lbs. and over	8d. per lb.

HEAVY BROOD SPECIAL—

For those who prefer a heavier foundation for brood nest or super.

Conversion rates for 7-Sheet Special:—

25 lbs. and over	7d. per lb.
10 lbs to 24 lbs.	9d. per lb.

F.O.R. or F.O.B. DUNEDIN or through AGENTS.

Exchange rates for 7-Sheet Special 1d. per lb. less than for standard Medium Brood.

ANY SIZE, ANY WEIGHT—WRITE FOR QUOTE.

Special quotations for quantities of 3 cwt. or over.

FORWARDING INSTRUCTIONS.—Wax for exchange or conversion must be consigned addressed as under:—

THE ALLIANCE BEE SUPPLIES CO., LTD.,

1 MASON STREET, DUNEDIN, C1.

Advice stating weight of Wax for exchange or conversion should be sent with each consignment forwarded.

Wax should be packed in boxes or double sacks, with sender's name and nett weight both inside and outside each package.

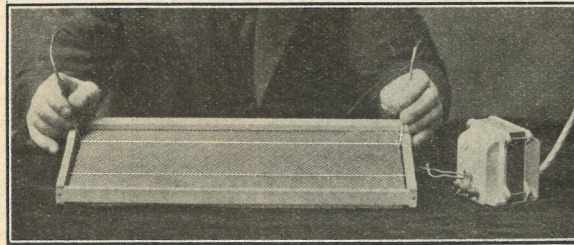
When forwarding Wax per RAIL, Beekeepers should consign as "BEESWAX TO BE MANUFACTURED INTO COMB FOUNDATION, CLASS C.," and take advantage of reduced rate of freight.

TERMS.—We must impress upon our Clients the necessity of, where possible, PREPAYING FREIGHT IN on Wax, and of remitting CASH WITH ORDER; also an amount sufficient to cover RETURN FREIGHT on Foundation.

A deduction of 2½ per cent. for loss of weight in manufacture is made on clean Wax sent for exchange or conversion.

THE ALLIANCE BEE SUPPLIES CO. LTD.
1 MASON STREET, DUNEDIN, C1

The "CAMERON" Electric Wire Embedder (Pat.)



Neatly and strongly constructed, the "Cameron" Electric Wire Embedder is the most Efficient and Economical embedder on the market to-day.

The "Cameron" Embedder embeds frame wire evenly for entire length of frame without disfiguration of comb foundation. It fits any standard electric lamp socket, and consumes, when in continuous use, only as much power as does an ordinary 30 watt lamp, viz., .03 of a unit per hour. This applies only to the period during which the frame wires are being heated. The consumption of power during the interval between the actual heating of the wires is infinitesimal. All standard models provided with three ranges of heating to suit varying methods of wiring frames.

The "Cameron" Embedder is absolutely safe to use, and complies with the regulations as laid down by the Public Works Department.

The Alliance Bee Supplies Co. Ltd.

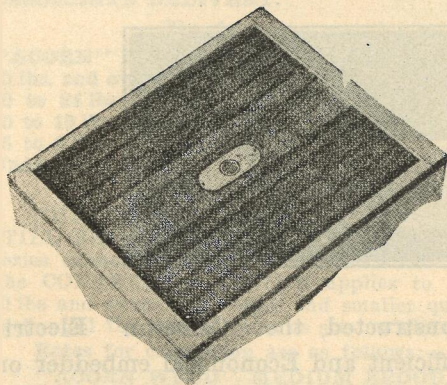
DUNEDIN

Selling Agents

BEE ESCAPES FOR HONEY HOUSES.

This Escape is made especially for use on doors and windows of workshops and honey houses or other places where bees get in and it is desirable to get them out without the possibility of their returning.

BEE ESCAPES (HODGSON)



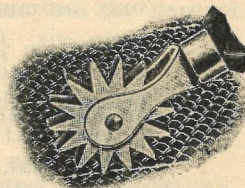
The Hodgson Escape well deserves its popularity. The special advantage of this appliance is that, being constructed of wire gauze, the heat of the hive is not shut off from the super after the bees have escaped. The honey is thus kept warm, and extracts more easily than if allowed to get cold. The Hodgson Escape is also useful when moving bees from one locality to another. Remove the roof, tack on a Hodgson, block up the beeway, and the bees may be removed any distance without danger of heating.

DIVISION BOARDS:

These Boards are bound on the edges, and are of the same dimensions as a full-depth Frame. They are used to confine small colonies on any desired number of frames.

EMBEDDERS (SPUR).

When Frames are wired, a tool should be used to embed the wires into the foundation to ensure rigidity. The Spur Embedder is the tool for this purpose. We recommend that it be used hot, so that each tooth melts a small amount of wax and firmly cements it to the wire.



In our Catalogue we have listed Standard lines. Should you prefer goods of any other design, send sample and we will be pleased to quote for your requirements.

QUALITY. SERVICE. PRICE.

HONEY EXTRACTORS

After carefully considering the merits of the various Honey Extractors as made by the world's leading manufacturers, we have decided to confine our stocks exclusively to machines manufactured by Messrs. Pender Bros. (Australia).

We have on hand stocks of the following models of Messrs. Pender Bros.' Extractors, and prompt delivery can be effected ex store.

Pender Bros. (Aus.)

Hand Driven Machines

Novice, 2-frame, Non-reversible	
No. 3 G, 2-frame, Reversible,	9 $\frac{5}{8}$ -inch Baskets
No. 5 G, 2-frame, Reversible,	12-inch „
No. 11 G, 4-frame Auto Reversible,	9 $\frac{5}{8}$ -inch „
No. 12 G, 4-frame Auto Reversible,	12-inch „
No. 13 G, 6-frame Auto Reversible,	9 $\frac{5}{8}$ -inch „
No. 14 G, 6-frame Auto Reversible	12-inch „
No. 15 G, 8-frame Auto Reversible,	9 $\frac{5}{8}$ -inch „
No. 16 G, 8-frame, Auto Reversible,	12-inch „

Power Driven

No. 11 P, 4-frame Auto,	9 $\frac{5}{8}$ -inch Baskets
No. 12 P, 4-frame Auto,	12-inch „
No. 13 P, 6-frame Auto,	9 $\frac{5}{8}$ -inch „
No. 14 P, 6-frame Auto,	12-inch „
No. 15 P, 8-frame Auto,	9 $\frac{5}{8}$ -inch „
No. 16 P, 8-frame Auto,	12-inch „
20 Comb Radial	

Prices as per our Current Price List.

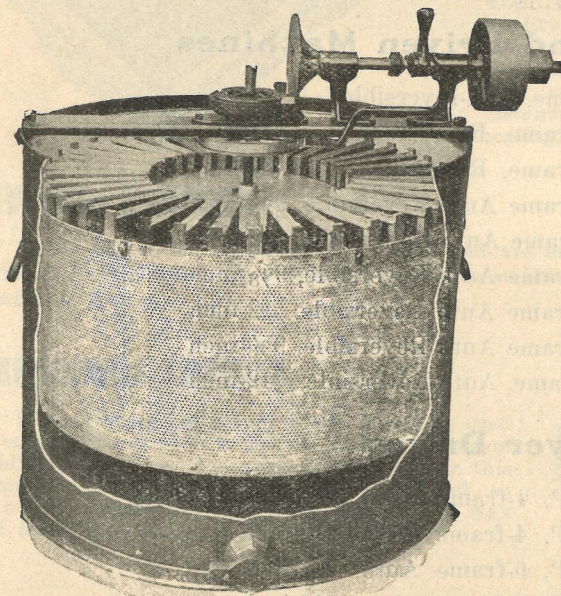
N.B.—All Power Driven Machines are fitted with the latest friction drive. Hand Machines are Gear Driven.

HONEY EXTRACTORS (continued)

Whilst we carry stocks of Messrs. Pender Bros.' (Australia) Extractors only, we will be pleased to INDENT TO SPECIAL ORDER machines manufactured by leading English, Canadian and American manufacturers.

Space does not permit of a description of the many makes of Extractors, both of the Reversible Basket and Radial Types, and whilst we confine ourselves to a brief description of the "SIMPLICITY" Radial Machine, made by the A. I. Root Co., U.S.A., in 20 and 45-comb sizes, there are other makes, such as the HERROD-HEMPSALL Machines, of varying capacity up to 50 combs; the "CLIMAX," in 20, 30 and 48-comb capacity; the HODGSON RADIAL, 28-comb capacity, and others, descriptions and indent prices of which we will be pleased to supply on request.

What the "SIMPLICITY" will do !



45-COMB "SIMPLICITY" EXTRACTOR.

Whether the honey be thick or thin, the combs old or new, the weather hot or cold, the **Simplicity** extracts both sides of all combs at the same time with uniform efficiency.

It extracts (clean) more combs per hour than the fastest Extractor previously known.

It extracts any size comb without change.

It strains the honey partially.

It dries the cappings.

It saves the time of at least one man.

It saves on the cost of extracting outfit.

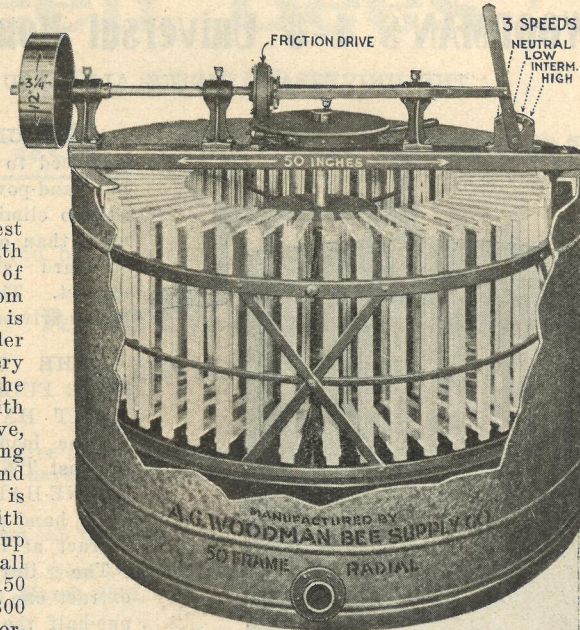
It saves on the cost of upkeep.

In our Catalogue we have listed Standard lines. Should you prefer goods of any other design, send sample and we will be pleased to quote for your requirements.

MARKET YOUR HONEY RIGHT.

HONEY EXTRACTORS (continued)

WOODMAN'S 50-Frame Radial



Here is the latest radial extractor with positive control of speed, no vibration from uneven loading, is equipped with roller bearings and is in every way the best on the market. Has lever with arms to friction drive, ratchet to set governing low, intermediate and high speeds. Pulley is 12 inches, and with proper power hook up speed can be varied all the way from 150 R.P.M. in low up to 300 in high. There is normal slippage of friction in starting with load, and machine takes approximately two minutes to reach full speed in low, all of which helps greatly to eliminate broken combs. Tank measures 52 inches in diameter, 36 inches in height, and is made of 22 gauge galvanised steel with two piece sides, two piece bottom and seam in centre pitched to supply free drainage. Flange is all threaded for use of gate or pump.

It has been said that the radial extractor is a good eliminator of poor combs, but this machine will not break combs at any temperature if properly operated. It is important to hook up the machine to power so that low speed will run at 150 R.P.M.. Give the machine plenty of time in low speed to empty combs, then speed up to intermediate, and give the combs a last whirl at high to clean them thoroughly. Meantime you uncap the next batch of combs for the machine. What speed may be used at highest run must be gauged by the temperature in which you work, as all combs grow soft as temperature increases.

The channel iron is 52 inches long, 5 inches wide and $1\frac{3}{4}$ inches thick. Machine has 6 inch hard fibre friction drive, 14 inch cast disc drive setting on roller bearings, and grease cup lubrication at all bearing points. Top gears weigh 113 pounds assembled. The net weight of the reel assembled is 235 pounds, top notched and bottom plain hoops $1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{8}$, angle iron 48 inches in diameter. Has 10 cross arm braces and 5 adjusting braces, 5 radial supporting rods, centre shaft 1 3-16 x 30 inches, all aluminium painted.

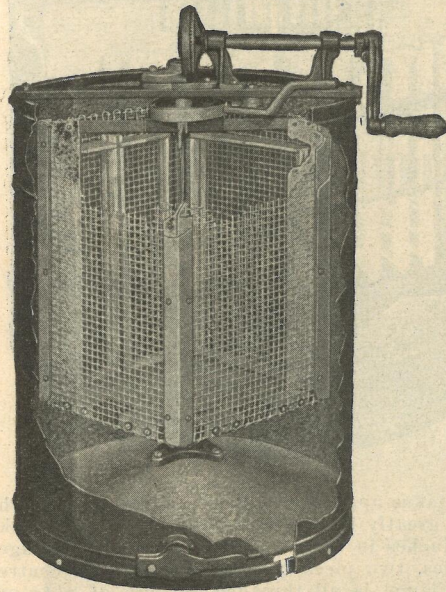
Cappings baskets can be supplied to fit the 5 segments of the reel and hold a day's drained cappings from one to two thousand frames. Anchor irons are supplied for fastening to floor, but are not required.

CORRESPONDENCE INVITED.

HONEY EXTRACTORS (continued)

WOODMAN'S 4-8 Universal Honey Extractor

“THE UNIVERSAL” MEETS ALL REQUIREMENTS.



“THE UNIVERSAL” has been produced to meet all requirements in hand-power honey extractor, and to eliminate the necessity for more than one size. It takes any standard size frames on the market. The next step is to a power-driven machine.

“THE UNIVERSAL” takes FOUR FULL-DEPTH FRAMES or EIGHT HALF-DEPTH FRAMES at one loading. Thus you have at least TWICE THE CAPACITY or ONE-HALF THE TURNING of other hand power extractors. You extract at least two frames with “The Universal” where you extract one with other machines— one-half the turning.

THE FRAMES are REVERSED by hand inside of the reel basket. It is not necessary to remove them from the reel basket. All of this is accomplished inside of a 24-inch diameter can.

THE REEL BASKET is made of heavy gauge galvanized wire cloth. It is bolted to galvanized wings at the corners, making a very rigid construction. The frames are set in behind the WINGS, HOLDING THE FRAMES IN PLACE. The steel spider arms are cast into the spider casting. The bottom plate of galvanized steel is notched out to take the lugs of the top bars to the frames, and is bolted to the bottom of the wire basket.

CAPPINGS can be dumped into the wire basket reel and the honey thrown from them. If so desired, advise in ordering, and closure strips for the bottom will be supplied without extra cost.

THE GEARS ARE ALWAYS IN MESH, which eliminates the danger of broken gears, as found with old style construction. By an ingenious arrangement, the CRANK HANDLE IS IDLE when power is not applied, and the reel basket is coasting.

PRICE ON APPLICATION.

PROMPT SERVICE.

Queen Bees !

WE SUPPLY

High-Grade Italian Queens



Bred by the Well-known Breeder

**R. STEWART,
HERIOT**



Queens Guaranteed free from all disease, and bred from pure stock, which have been selected for hardiness, disease resisting, good working and non-swarmling qualities.

Ninety-five per cent. of Untested Queens Guaranteed purely mated.

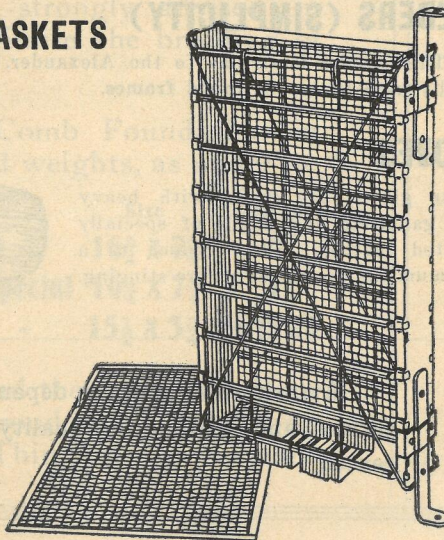
DELIVERY.—Tested, from October 15th; Untested, from November 20th; as weather permits, to March 20th.

Orders executed in rotation as received.

Prices as per our Current Price List.

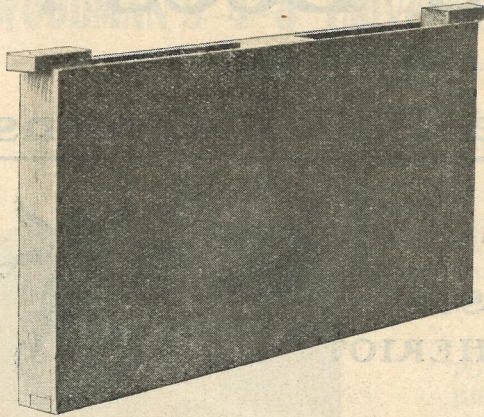
HONEY EXTRACTOR BASKETS

We are now in a position to supply N.Z.-made baskets to fit any type of honey extractor. Our baskets are solidly constructed, all joints being electrically welded. The wire-mesh screens are removable to facilitate cleaning. After being assembled, baskets are passed through a bath of molten tin, which sweats up all joints. Forward us one of your old baskets as a sample, and we will quote you for a new set.



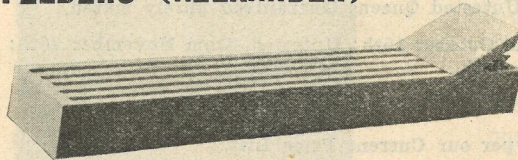
ORDER EARLY TO ENSURE DELIVERY.

FEEDERS (DIVISION BOARD)



This is the most popular Feeder on the market. It has the same dimensions as an ordinary brood frame, and hangs in the brood nest. To feed, remove the cover far enough to expose the Feeder, and pour in the syrup. The bees are thus supplied without exposing the cluster.

FEEDERS (ALEXANDER)



The Alexander Feeder is constructed on the plan of a grooved trough. For stimulative purposes there is nothing better. Place the Feeder at the back of the hive, level with the bottom board, and move the hive back to cover it. This Feeder is made sufficiently long to allow of a metal capped projection, into which syrup is poured without opening the hive.

FEEDERS (SIMPLICITY)

This Feeder is similar to the Alexander, but on a smaller scale. It is usually used on top of brood frames.

GLOVES

Our gloves are made with heavy drill gauntlets and hands of specially selected leather. They reduce to a minimum the danger of severe stinging.



Apiarists can always depend upon "Alliance" service and "Alliance" quality—exactly as represented.

COMB FOUNDATION

Clients will note that Comb Foundation is not included in the Hives specifications. We therefore give below table of weights, which will be of assistance in estimating quantities required.

An A6	Hive	requires	approximately	2½ lbs.	Medium Brood.
A7	”	”	”	2 lbs.	Medium Brood.
A8	”	”	”	1¼ lbs.	Medium Brood & ½ lb. Thin Super.
A9	”	”	”	1¼ lbs.	Medium Brood & ¼ lb. Thin Super.
A6	Super	”	”	1¼ lbs.	Medium Brood.
A7	”	”	”	¾ lb.	Medium Brood.
A8	”	”	”	½ lb.	Thin Super.
A9	”	”	”	¼ lb.	Thin Super.

ACORN COMB FOUNDATION as stocked by us is made by the Weed Process from the Finest Quality PURE BEESWAX, specially treated to ensure the absolute elimination of disease germs. It is correctly embossed for worker cells only. The use of full sheets is, therefore, strongly advised in order to minimise the breeding of drones.

We supply Comb Foundation in Two sizes and weights, as under:—

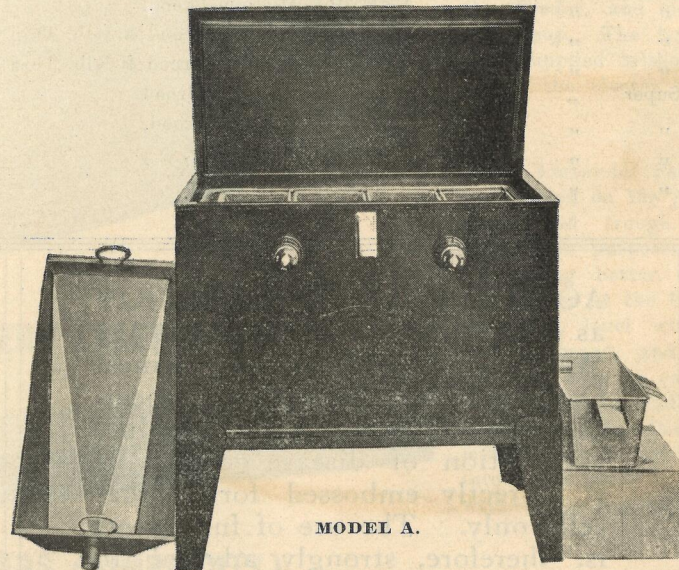
	Size	Sheets per Lb.
MEDIUM BROOD	16¾ X 7¾	8
HEAVY „ Special	16¾ X 7¾	7
THIN SUPER -	15½ X 3¾	26 to 28

We recommend the use of Medium Brood for Brood and Extracting Frames, and Thin Super for Sections

The "Alliance" Electric

Efficient—

**Every Ounce of Wax and Honey
produced in Perfect Marketable Condition.**



MODEL A.

THE "ALLIANCE" Cappings Reducer

is designed for the melting of Cappings in a **QUICK, ECONOMICAL** and **EFFECTIVE** manner.

Model A, as illustrated, has a capacity sufficient for the daily disposal of all Cappings produced in the largest apiaries. The combined holding capacity of the four Baskets is 7 cubic feet, or, in other words, 10 petrol tins full of Cappings.

Model B is a Two Basket Outfit, suitable for the smaller Apiaries. It has half the holding and heating capacity of the larger model. Model B can be operated from any heating point.

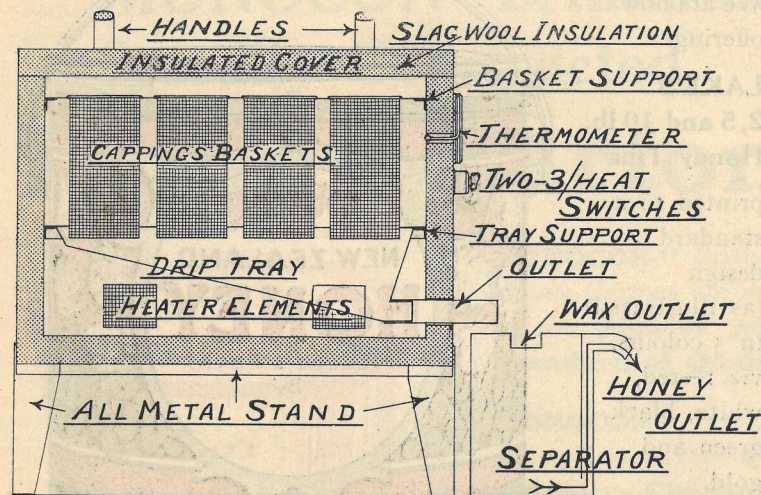
In addition to the Melter, Drip Tray and Separator (illustrated), an Uncapping Box (not shown) is provided, in which the Baskets are suspended. The operator uncaps direct into the Baskets, which, after draining, are transferred to the Melter. **Storage and Handling of the Cappings is Entirely Eliminated.**

Owing to the large heating and draining surface of Baskets, the melted Wax and Honey run off quickly, thus **eliminating all risk of discolouration** through over-heating. Foreign matter, such as slum-gum, dead bees, etc., are retained in baskets; no messy slats and cheesecloth required.

Cappings Reducer . . .

Economical—

Cheap in First Cost and in Operating Costs.



MID-SECTIONAL DRAWING, MODEL A.

The whole construction is in compliance with Fire Underwriters' and Power Board regulations, of materials which will give a maximum of service. External and internal walls are of heavy gauge galvanized iron, insulated between with slag wool, which is recognized the world over as the best insulating material procurable. Movable Drip Tray, Separator and Uncapping Box are of tinned steel. Framework of Baskets is electrically welded and tinned over after assembling.

The Model A electrical installation consists of four 1,000-Watt Griller-type Elements of best British make, coupled in pairs to two 3-Heat Switches, so that the Melter may be operated at any desired temperature, varying from merely warm to several hundred degrees Fahrenheit.

Model B is fitted with two 1,000-Watt Griller-type Elements coupled to one 3-Heat Switch.

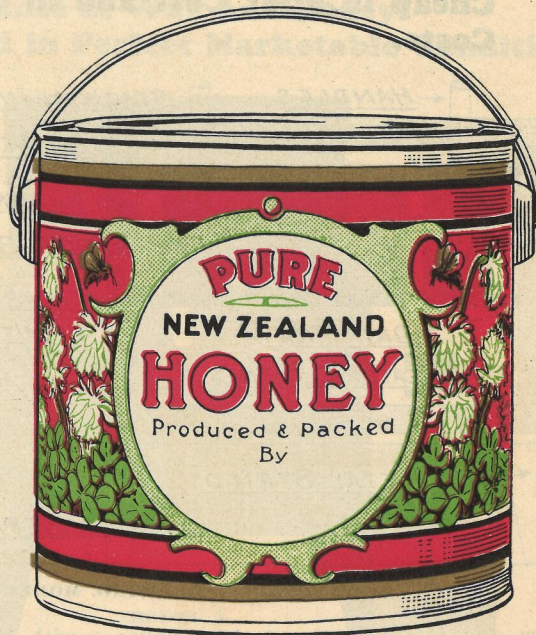
CAUTION!

The Services of a Qualified Electrician are required to Couple Model A Melters to Power Line.

Market your Honey right !

Pack it in Beautiful Printed Tins

We are now offering
LAKE'S
2, 5 and 10 lb.
Honey Tins
printed to a standard design
(as illustrated)
in 5 colours,
viz. :—red,
white, black,
green and gold.



These printed tins will help you greatly to sell your honey.

Prices as per our Current Price List.

Producers may have their names and addresses printed in blank panels in any quantities at 1d. per dozen extra.

Plate for printing name and addresses is charged extra at approximately 5/-. This charge is incurred with first order only.

Special quotes for tins printed to producer's own label design in 10 gross lots.

We pack printed tins in sacks or cases, which are charged extra at cost.

Prices are F.O.R. Dunedin, and subject to 2½% Cash Discount if paid within 30 days, otherwise Net.

The Alliance Bee Supplies Co. Ltd.
1 MASON STREET, DUNEDIN, C1

Increase Your Honey Sales

with

“MONOCON” British-made
Sturdily Constructed

Honey Cartons



“MONOCON” British-made Honey Cartons are made up to the **Highest possible Standard of Quality.**

“MONOCON” British-made Honey Cartons are—**quality** considered—**Cheapest!**

• •

Buy British
Buy “Monocon”
Buy the Best!

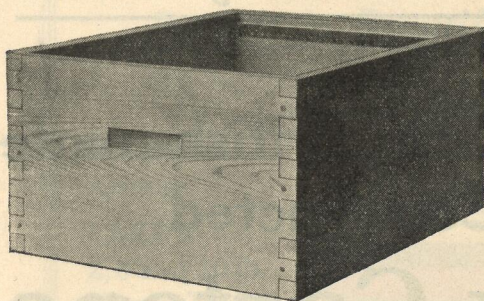
For Indent and Ex Store Prices of “Monocon” Cartons see our Current “Alliance” Price List.

We are in a position to supply “MONOCON” Cartons printed with your own label design in one or more colours at a slight additional cost. Such orders are limited to quantities of 5000 or more, either size or assorted order. Correspondence invited.

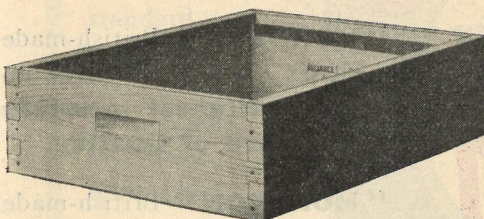
THE ALLIANCE BEE SUPPLIES CO. LTD., DUNEDIN

CORRESPONDENCE INVITED.

"ALLIANCE" HIVES



Full Depth Storey.

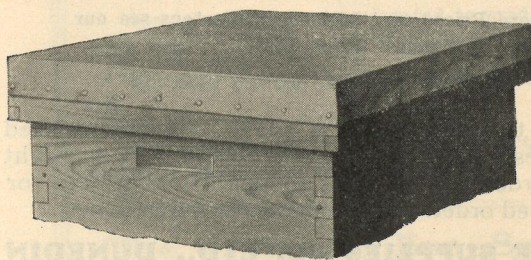
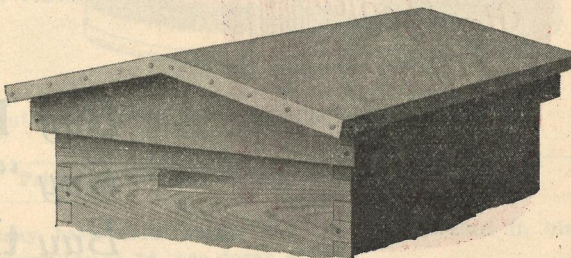


Half Depth Storey.

ALLIANCE GABLE ROOFS

are sloped on two sides deep enough to allow rain water to flow off quite clear of the hive. The framework is lock-cornered and roof boards bevelled on edges to make a

close-fitting ridge-joint. A sheet of zinc is provided with each roof, and when this is snugly fitted and securely nailed, the roof is perfectly leak-proof.



are constructed on lines universally recognized as standard the world over. In every detail of their manufacture, Quality and Utility are our first considerations. First class thoroughly seasoned timber machined on up-to-date machines by experienced workmen, is the secret of our success as HIVE-MAKERS.

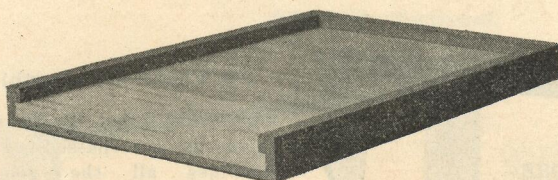
ALLIANCE DOVETAILED OR LOCK CORNER STOREYS

are the strongest made. There are no cleats to get knocked off or broken. When put together they form a bee-proof, water-tight and weather-tight job. The dovetails should be given a thin coat of paint and assembled while the paint is wet.

ALLIANCE FLAT ROOFS

have come greatly into favour within the past few years. In localities exposed to high winds, these roofs have resisted the strongest gales. The framework is lock-cornered and roof boards tongue and groove jointed. As is the case with gable roofs, a sheet of zinc is provided.

"ALLIANCE" HIVES—Continued.

**ALLIANCE
REVERSIBLE
BOTTOM
BOARDS**

are made to the same design as the famous Danzenbaker patent. Their chief

advantage is that, being reversible, provision is made for a summer and winter entrance. All that is necessary for the beekeeper to do is to reverse the board to suit climatic conditions.

For the convenience of Clients, we specialise in packing complete Hives in single packages to the following specifications:—

No. A6—Two Storey Extracted Honey Hive.—Consists of a reversible bottom board, two dovetailed storeys, twenty self-spacing Hoffman frames, one zinc-covered sloping roof and sufficient nails.

No. A7—One and One-half Storey Extracted Honey Hive.—Consists of a reversible bottom board, one dovetailed storey, one half storey (dovetailed), ten Hoffman frames, ten half Hoffman frames, one zinc-covered sloping roof, and sufficient nails.

No. A8—A Two Storey Section Honey Hive.—Consists of a reversible bottom board, two dovetailed storeys, ten self-spacing Hoffman frames, seven section frames, fourteen separators, fifty-six sections, one zinc-covered sloping roof and sufficient nails.

No. A9—A One and One-half Storey Section Honey Hive.—Consists of a reversible bottom board, one dovetailed storey, one dovetailed half storey, ten self-spacing Hoffman frames, seven half section frames, seven separators, twenty-eight sections, one zinc-covered sloping roof and sufficient nails.

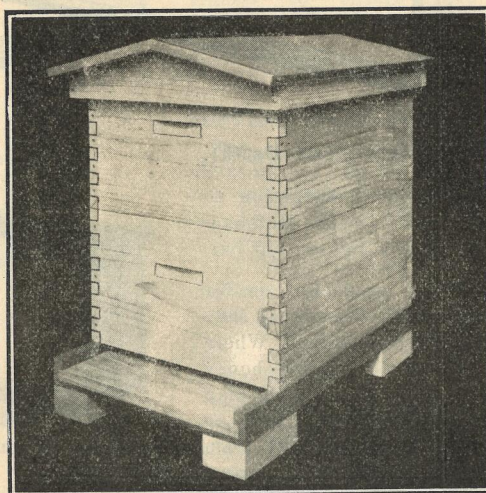
No. A6—Super (for tiering up).—Consists of one dovetailed storey and ten self-spacing Hoffman frames.

No. A7—Super (for tiering up).—Consists of one dovetailed half storey and ten self-spacing half Hoffman frames.

No. A8—Super (for tiering up).—Consists of one dovetailed storey, seven full-depth section frames, fifty-six sections and fourteen tin separators.

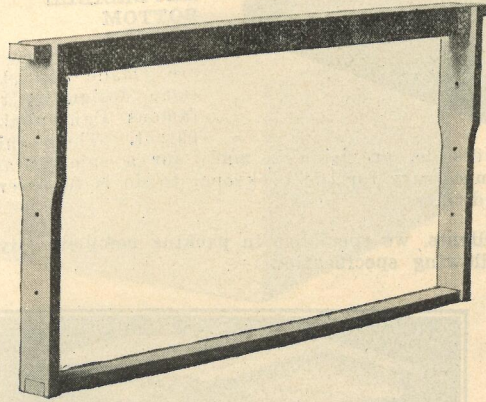
No. A9—Super (for tiering up).—Consists of one dovetailed half storey, seven half section frames, seven separators and twenty-eight sections.

SEE PAGE 13 FOR QUANTITIES FOUNDATION REQUIRED FOR ABOVE HIVES.



ALLIANCE TWO-STOREY HIVE.

FRAMES.



HOFFMAN (Full Depth).

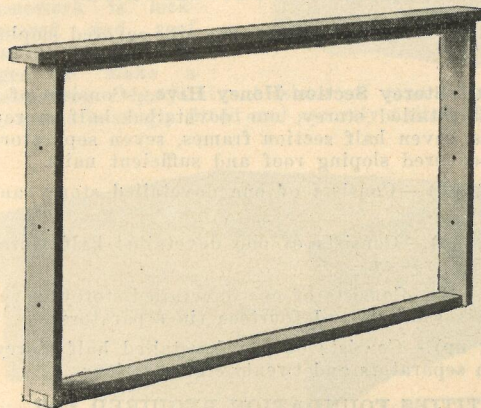
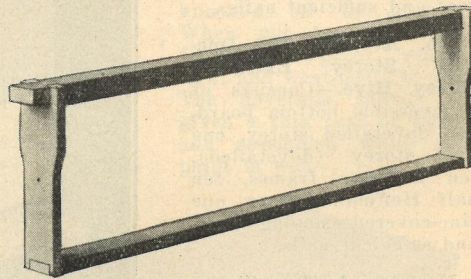
For utility, the Hoffman Frame is unsurpassed. It combines all the good features of other frames. Being self-spacing, it can be rapidly manipulated without risk of incorrect spacing. Combs built in Hoffman frames are invariably more uniform than those built in any other style.

HOFFMAN (Half Depth).

Similar in construction to the Full Depth Hoffman but with a lighter top bar

Some producers prefer Half-depth Frames, as they are lighter to handle. Where flows of poor grade honey are obtained, a good plan is to allow the bees to

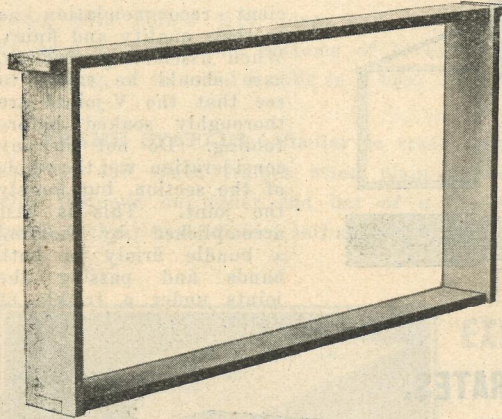
store it in half-depth frames, which at the end of the season may be placed on the hives, ensuring ample winter stores.



SIMPLICITY.

This is a non-spacing frame favoured in some localities. The top bars are 1 1-16in. wide by 5/8in. thick, the end bars being 1 1-16in. all the way down. They may be made staple spaced by driving frame staples into either side of the top bar close up to the end bar.

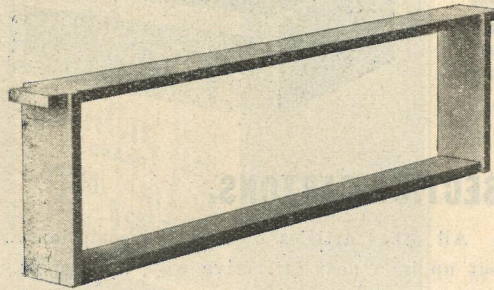
FRAMES—Continued.



Section Frame—Full Depth.

SECTION (Full Depth).

Used in the production of Section Honey only. Each frame holds eight $4\frac{1}{4} \times 4\frac{1}{4}$ sections. We recommend the use of tin separators with these frames to ensure nice evenly surfaced sections.



Section Frame—Half Depth.

SECTION (Half Depth).

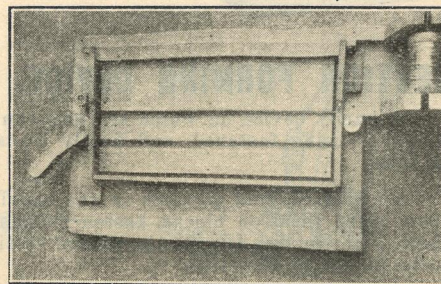
For use in half storeys; identical in design with the full-depth frame, but to hold four $4\frac{1}{4} \times 4\frac{1}{4}$ sections.

Our stock pattern Half Hoffman Frames have single groove top bars, but we can supply them with double groove and wedges to special order.

We make Hoffman Full Depth Frames with both double and single groove top bars. When no specification is given, we send double groove style.

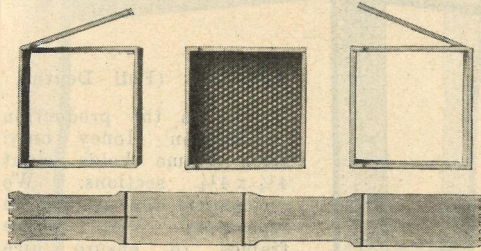
FRAME WIRING DEVICE

Unless frame wires are stretched tight, they are practically useless. Our wiring device takes full, three-quarter or half-depth frames. By means of a lever, pressure is brought to bear on the end bars, after which wires are securely fastened, and when pressure is released the end bars spring back to normal position, leaving wires thoroughly tight.



MARKET YOUR HONEY RIGHT.

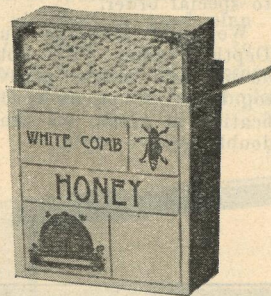
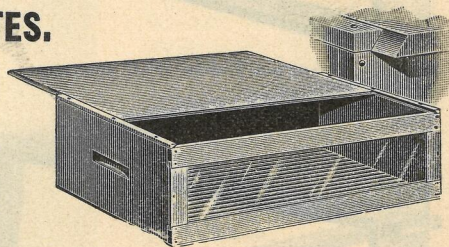
SECTIONS:



We find difficulty in coping with the demand for our Alliance Sections. This fact in itself is sufficient recommendation as to their quality and finish. When assembling sections, care should be taken to see that the V-joints are thoroughly soaked before folding. Do not on any consideration wet the whole of the section, but merely the joint. This is best accomplished by holding a bundle firmly in both hands and passing the joints under a trickle of water.

SECTION SHIPPING CRATES.

Our Section Shipping Crates are neat, attractive looking packages designed to hold 24 sections. The risk of breakages when consigning comb honey is greatly minimised, while the market value of the honey is greatly enhanced.



SECTION CARTONS.

All other articles of home consumption are put up in a neat attractive way, and in shape to be handed to the customer and carried safely without wrapping. Why not pack sections of comb honey in a similar manner, especially when the cost of the boxes is so low? These cartons are just what is wanted.

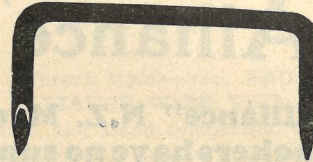
SECTION FORMING DEVICE.

A handy device on which sections can be formed, held square while foundation is being fastened, and finally transferred to section frames in groups of four.

To operate, fold sections in the usual way, leaving one-half of top bars open, place them on blocks, fasten foundation, then slip section frames over them, and you have perfectly square sections assembled in the frames ready to be placed in the hives.

STAPLES:

CRATE STAPLES.—These are 1½in. wide, with points ¾in. long, and may be used to fasten the bottoms of hives in moving, or to mend a split in a box.



FRAME STAPLES.—Similar to crate staples, and are used to end space frames when plain frames are used. One fastened on either end bar of a Simplicity Frame forms a cheap and efficient self-spacing frame.



EXPORT HONEY CASES.

Our Export Honey Cases are made from good quality thoroughly seasoned timber, and comply in all respects to regulation standards.

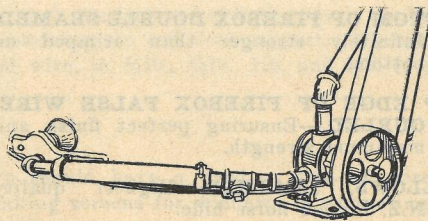
Under existing grading regulations defective casing may be penalised. We guarantee "ALLIANCE" Cases against penalties and defects.

Nailed up Cases branded free of charge. Cases supplied in flat are not branded.

EXPORT HONEY TINS: (See Current Price List.)

HONEY PUMPS

We have a set of patterns for Honey Pumps, and can supply New Zealand-made Pumps equal, if not superior, to anything produced in other countries at lower prices than the imported Pumps. Enquire about these Pumps.



"Alliance" Bee Smokers

"Alliance" N.Z. Made Bee Smokers have no superiors in any part of the world.

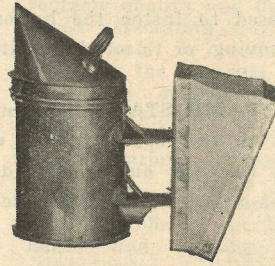


Every Genuine
ALLIANCE MADE
BEE SMOKER
bears this Brand.

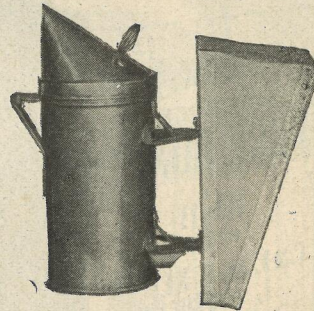
**Designed on
Practical Lines**

**Highest
Quality
Materials
Throughout**

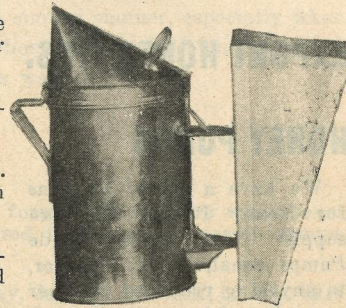
**Made in
New Zealand**



MINIFUME. 5 x 3¼ in. Barrel.
In Tin only.
Suitable for Apiaries of up to
10 colonies.



MEDIFUME. 7 x 3¼ in. Barrel.
In Tin or Copper.
Suitable for Apiaries of up to
150 colonies.



MAXIFUME. 7 x 4¼ in. Barrel.
In Tin or Copper.
Suitable for the Largest
Apiaries.

METAL-BOUND BELLOWS.—This prevents leakage of air, warping of bellows-boards and furnishes an excellent finger grip.

SHORT NOZZLE.—Economizes space; ensures maximum strength.

ANTI-SPARK TUBE.—Prevents all waste of draught; prevents sparks being sucked backwards; eliminates necessity for valves.

COILED WIRE HANDLE.—Permits the nozzle to be removed at any time. Never gets hot.

REMOVABLE GRATE.—Has abundance of holes for draught. Easily removed for cleaning.

STAMPED METAL LEGS.—Of ribbed construction. Impossible to bend.

BOTTOM OF FIREBOX DOUBLE-SEAMED.—Infinitely stronger than crimped on bottom.

TOP EDGE OF FIREBOX FALSE WIRE-CURLED.—Ensuring perfect finish and maximum strength.

BELLOWS, LEATHER.—Highest quality N.Z. tanned horse hide.

CORRESPONDENCE INVITED.



BRUSSELS NET VEIL.

VEILS.

We stock two different styles—viz., **BRUSSELS NET** and the new **ALLIANCE WIRE VEIL**. Both are New Zealand made, and stand comparison both as regards quality and price with similar Veils produced in any other part of the world.

Our **BRUSSELS NET VEIL** is made of best quality cotton net. Skirt is of ample dimensions to allow of comfortable roomy fitting over the shoulders and tucking in under the waistcoat or jacket. An inexpensive veil, which will fit any hat.

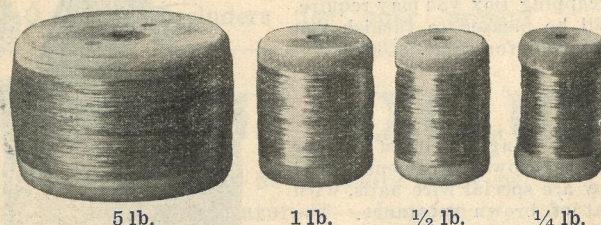
ALLIANCE WIRE VEIL.

This is one of our latest productions—a High Grade Veil which, with careful use, will give years of service. It is so constructed that it provides unobstructed vision and freedom of movement. The materials are so cut that, irrespective of what angle one's head is turned, perfect balance is assured, and the wire front never comes in contact with one's face. Both top and bottom skirts are fitted with elastic bands, which fit snugly round the hat and collar, making it almost impossible for bees to gain entrance.



ALLIANCE WIRE VEIL.

WIRE (28 GAUGE).



5 lb.

1 lb.

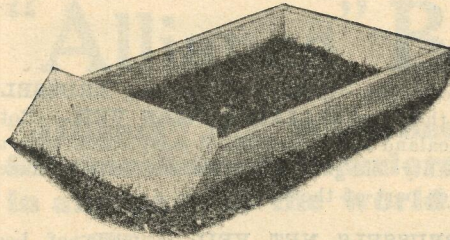
 $\frac{1}{2}$ lb. $\frac{1}{4}$ lb.

Frames should be wired before Foundation is placed in them. Three wires running lengthwise of the frame, each one fastened at both ends, is the best way. If one should break, the two remaining are sufficient support. We stock only the best quality annealed tinned wire, in $\frac{1}{4}$ lb., $\frac{1}{2}$ lb., 1 lb. and 5 lb. spools.

WIRE GAUZE.

Every well-equipped apiary should have a yard or two of wire gauze on hand. Just the thing for making screens for windows in extracting houses or when moving bees.

BEEWAX.—WE PAY HIGHEST CASH PRICES.



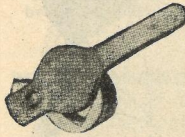
HIVE STANDS.

A good Hive Stand will save its cost in saving bee-life in a very short time. In spring and autumn many bees, unless they have an easy runway to the hive, will die on the ground, unable to get in. Our Hive Stands are solidly constructed of Californian Redwood, one of the world's most durable timbers. Place your hives on hive

stands this season, and you will be pleased with the result. Apart from the saving in bee-life, they will prolong the life of your bottom boards.

HIVE TOOLS.

These tools have become very popular on account of the many uses to which they can be put, such as scraping frames and prying them loose, separating supers, raising covers, etc. The bent end fits nicely into the palm of the hand, while the other is used as a pry. Made of high grade spring steel calculated to stand great strain.

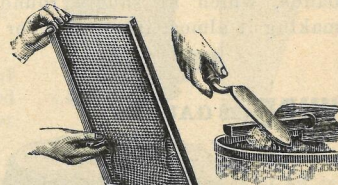


HONEY GATES.

The adjustable flow Honey Gate as stocked by us is of the same design as fitted to all makes of Honey Extractors. By raising or lowering the lever, the operator can adjust the flow of honey to any required volume.

UNCAPPING GANS & BOXES.

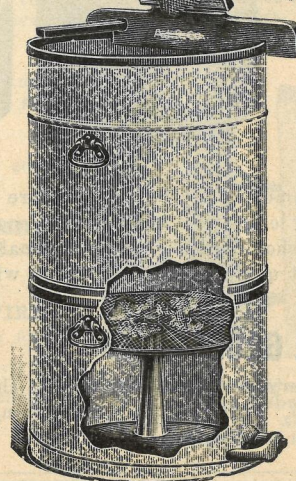
Forward dimensions and rough sketch of any particular design of Uncapping Can or Uncapping Box you may require, and we will be pleased to furnish you with a quotation for same.



NAILS.

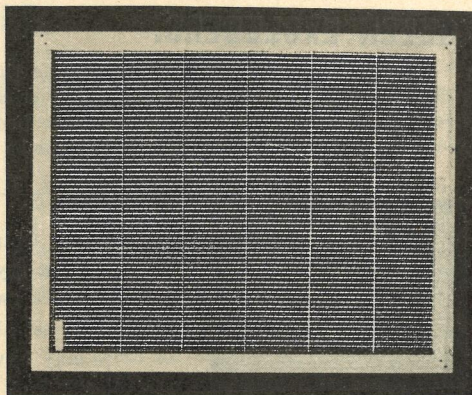
We are now using in almost all our work what are known as cement-coated nails. They are special wire nails, with a thin coat of brown substance. The friction of the nail on the wood in driving softens this coating, and makes it adhere to the wood while also adhering to the nail. This makes the nail hold better than anything heretofore known. It is almost impossible to draw them out again.

Length.		Approx. No. of nails in 1 lb.
1/2-inch	.. 20 gauge	..
3/8-inch	.. 18 gauge	..
1 1/4-inch	.. 17 gauge	.. 1,400
1 1/2-inch	.. 16 gauge	.. 620
2-inch	.. 13 gauge	.. 350



PROMPT SERVICE.

"Waldron" (Reg.) Excluder



We take pleasure in advising that we have secured the New Zealand agency for the "WALDRON" (Registered) Queen Excluder, which we believe to be superior to anything in the line previously offered to beekeepers. This Excluder is, as shown, constructed of a series of wires securely and correctly spaced at intervals by means of girder bars, giving a minimum amount of obstruction to the bees when passing through.

500 per cent. per annum

—that is the return your capital will yield if you substitute "Waldron" (registered) Queen Excluders for your present excluders.—By using a

"WALDRON" EXCLUDER

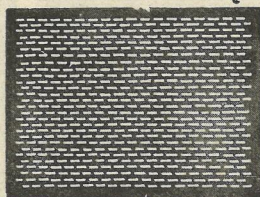
you will get 20 to 50 lbs. more honey per hive each season——because

- Waldron Excluder gives maximum space for the passage of the Bees.
- It is guaranteed accurate so that no uneven spacing of the wires will allow the Queen to pass through.
- It is strong and durable as every wire is soldered to the girder bars.
- It is tinned all over so cannot rust.
- It has the advantages of all other excluders and none of their disadvantages.
- It is British-made by a Successful Beekeeper.

EXPORT HONEY TINS. (See back of Price List.)

QUEEN EXCLUDERS.

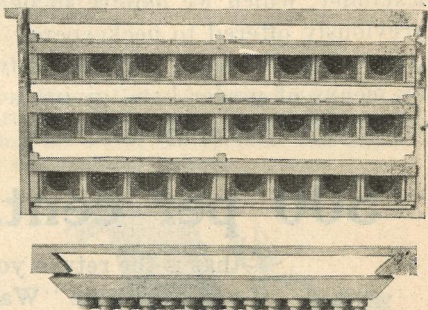
Queen Excluders are used to confine the queen to the brood chamber by placing them between the brood chamber and super, and since the openings are just large enough to permit worker bees to pass, the queen is prevented from going above to lay eggs in the combs containing the surplus honey.



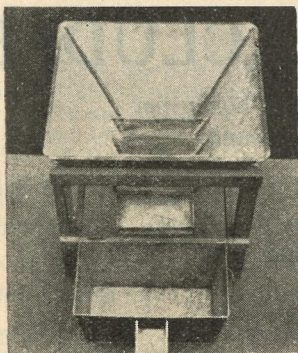
Opinions differ as to which is the best style of Excluder. We therefore stock two types—namely, zinc and the latest all-wire design, so that apiarists may have their own choice.

QUEEN REARING OUTFITS

Amateurs as well as experts will get first class results from using our Queen Rearing Outfits, which consist of a book of 36 pages, 24 queen nursery cages, 1 queen nursery frame, 100 wooden cell cups, 200 artificial wax cells, 3 cell bars, 10 Miller introducing cages, 1 transferring needle, 1 jelly spoon.



GIBB CAPPING REDUCER.

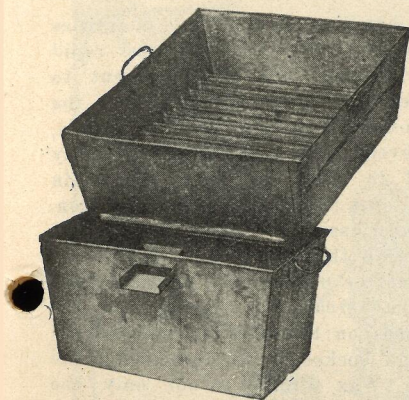


Although the Baines Melter is growing in favour season after season, we believe that in placing on the market the Gibb Machine we are introducing a worthy rival. Simple in construction, convenient to operate and guaranteed to give sure results at a minimum cost. All that is necessary is a good supply of steam, generated in an oil-drum boiler or from any other source. A great feature in this type of Melter is that steam may be led to it from outside the honey-house, thus keeping the temperature inside from becoming oppressive. Another feature is that a steam-heated knife may be fitted to the exhaust.

(Now made of Tinned Copper to comply with Regulations under Section 21 of The Sale of Foods and Drugs Act.)

MARKET YOUR HONEY RIGHT.

BAINES CAPPING REDUCER:



All large beekeepers have experienced considerable difficulty in dealing with uncappings. The Baines Capping Reducer will handle all the cappings produced in the course of a long day's work.

Recently a beekeeper purchased a Baines Reducer to melt down a large quantity of sections which had been damaged in transit. It did the work perfectly. Without exception all beekeepers who have used this Reducer express their appreciation of its work.

The great advantage of the use of this machine is that the cappings are disposed of, a high-grade wax produced immediately the extracting is finished, and the honey has not deteriorated in the slightest degree.

The Baines Capping Reducer is invaluable for rendering combs which are filled with honey so thick that it cannot be extracted in an ordinary extractor. A kerosene stove is used to keep the water hot.

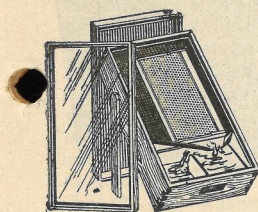
(Now made of Tinned Copper to comply with Regulations under Section 21 of The Sale of Foods and Drugs Act.)

VAN DEUSEN WAX TUBES.



For fastening Comb Foundation in single groove frames, this is the correct tool. It feeds a fine stream of hot wax, which firmly cements the foundation in the groove.

SOLAR WAX EXTRACTORS:

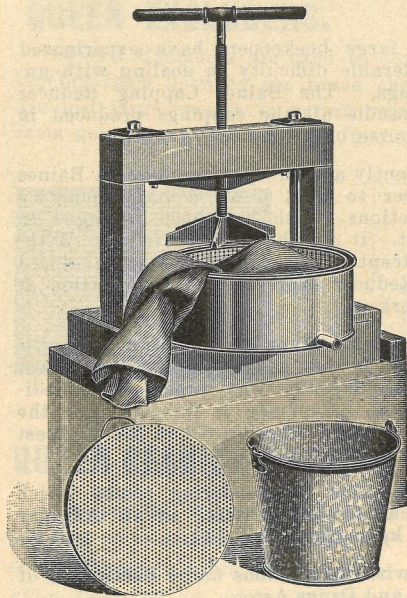


Wax Extractors may be divided into two general classes—those that melt wax by the action of the sun's heat, and those that are operated by artificial heat in connection with a press. The former are adapted to melting up burr and brace combs, scrapings and the like, but are not suitable for rendering up old combs or any scrapings where there is any dirt mixed with them. Every well-regulated apiary should have a sun extractor placed in the centre of the yard; then the little scraps of wax as fast as they accumulate can be thrown into the machine and melted up. While it will melt up new combs, it will not handle, without considerable loss, old tough ones or dirty scrapings.

A client writes:—"The Solar Wax Extractor is a perfect success. My wax was all extracted by it this season, and came out cleaner and easier than by any other method I have tried. The wax also is of better quality."

Made in two sizes.

PACK IN BEAUTIFUL PRINTED TINS. (See page 16.)



THE HATCH WAX PRESS.

For handling wax in large quantities the Hatch Wax Press is a most rapid Root machine, and is convenient to handle. The Press is built after the Hatch-Gemmil design, so well known, and every part has been thoroughly tested to stand the enormous strain placed on a machine of this description. If directions are closely followed, it will clean the slum-gum so that there need not be more than 1 per cent. left. We have carefully tested all the machines on the market, and for the average beekeeper we recommend the Hatch Wax Press as not only the cheapest in cost but cheapest to operate of any machine that has been heretofore sold. The quality of wax will be much superior to that from the Solar Extractor. On account of its rapidity when in action, this Press has become very popular.

ALEXANDER HONEY STRAINER.

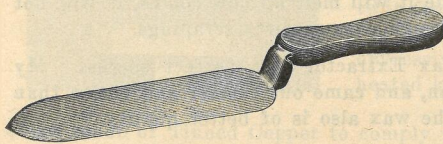
The illustration gives a good idea of the construction of this Strainer. The sides and bottom are made of brass wire cloth, giving a large amount of straining surface.



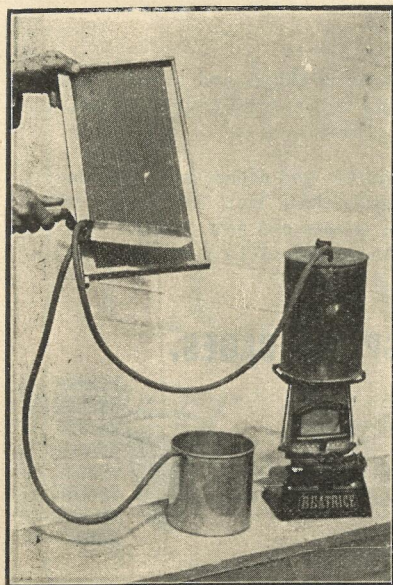
FUNNEL STRAINER.

Designed similar to an ordinary kerosene filler, but on a larger scale, and fitted with a movable brass mesh screen. Where only small quantities of honey are to be strained, a Funnel Strainer is just the thing.

KNIVES (UNCAPPING).



The work of uncapping combs is, under the best of conditions, a tedious job. A good uncapping knife is essential in the honey house if you wish to get through the work expeditiously.

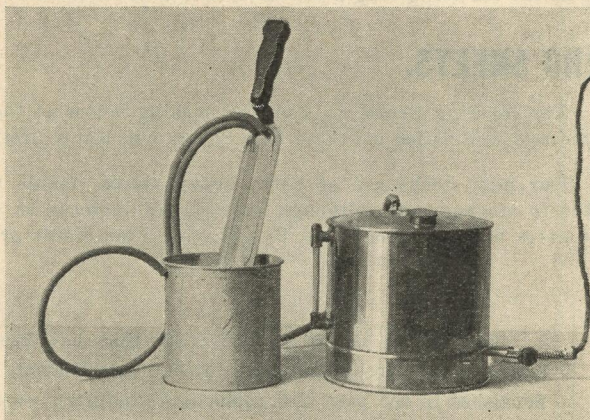


KNIVES (STEAM HEATED)

“ALLIANCE” Steam Heated Knives are constructed on sound lines, and give entire satisfaction. The bottom of the boiler in which the steam is generated is especially designed to give a greater heating surface than found on any other make of the same dimensions. The advantage of this improvement is that only a small lamp or open-wick stove will provide sufficient heat to keep up a good supply of steam.

ELECTRIC UNCAPPING OUTFIT

The ‘ALLIANCE’ Electric Uncapping Outfit surpasses anything in the line ever previously offered to beekeepers. It (as illustrated) consists of a 1½-gallon copper boiler, in which is fitted a 1,200 watt electric element, with automatic cut-off which operates instantly should the water by mischance become too low; sight gauge for water level and safety valve; a high-grade 10-inch copper jacketed knife with improved “easy grip” handle, 6 ft. rubber tubing, length of 3-wire cable and connector and galvanized drip-can; wall plug not provided.



The Outfit can be used with any heating plug. It will, without refilling, generate sufficient steam to keep knife piping hot for about four hours.

HONEY TANKS.

Our stock pattern honey tanks are circular in shape, and have a capacity of approximately $\frac{1}{4}$, $\frac{1}{2}$ or 1 ton, but we will be pleased to submit quotations for tanks made to any desired shape or dimensions.

Section 21 of The Sale of Foods and Drugs Act and subsequent amendments, regulations of which debar the use of galvanized iron for honey tanks, will in future be rigidly enforced, therefore clients can rest assured that our tanks will comply with the regulations both in regard to material used and method of soldering.

WEST CELL PROTECTORS & SPIRAL CAGES.

West Cell Protectors prevent bees from tearing down choice Queen Cells which the apiarist wishes to save.

A spiral cage screwed left handed on the Cell Protector forms an effective means of confining the virgin queen until such time as she is required.



WOOD MATS OR SUPER COVERS.

The Covers are made of three-ply wood to prevent warping or twisting. The edges are framed with a lath $\frac{7}{8}$ x $\frac{5}{8}$, which fits inside the storey over the top of the frames, giving a bee space above the frames.

ZINC SHEETS.

For covering Roofs, we know of nothing better at the price. If carefully fitted and well nailed on, these Zinc Sheets will last a lifetime.

Our new stocks are of extra heavy gauge, double the weight of those hitherto stocked, and, although showing an increase in cost, are well worth the extra money. Stock size, 27 x 21, for either Gable or Flat Roofs.

Beekeeping is an ancient craft that has been followed by human kind throughout the course of civilisation. While it has flourished in the past, this remarkable industry, owing to problems now faced by an under-nourished world, bids fair to surpass in profit and demand any of its past records. Simple and sure, the beekeeping business offers exceptionally bright prospects for those who engage in it. The investment is small—the returns are certain.

CORRESPONDENCE INVITED.

Special Quotations !

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**OUTSTANDING
VALUE**

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Send for our List of "CONQUEST" Bee Supplies

ATTENTION, Beemen !

We take pleasure in notifying Beekeepers of our appointment as New Zealand distributors of the celebrated

“ WHIRL DRY ” Cappings Driers and Radial Honey Extractors

manufactured by

**Messrs. S. P. HODGSON & SONS,
New Westminster, British Columbia,
CANADA.**

Full particulars of these labour saving devices will be supplied on request.

IMPORTANT

We beg to remind Beekeepers that every place where bees are kept (one hive or more) **MUST BE REGISTERED as an Apiary, and Certificate issued.**

If you do not hold Certificate, apply without delay to

The Director,
Horticulture Division,
Dept. of Agriculture,
Wellington.

Penalty for neglect, £20.