THE EVENING NEWS.

Saturday, - - - August 31, 1872.

ARTIFICIAL AND RECONSTRUCTED COMB.

[CONTINUED]

I took some wax and melted it. After it had partially cooled, I took white granulated sugar and worked it into the wax by taking it into my hands and kneading it like dough. If worked rapidly, it will remain soft and plastic for some time. After I had thus incorporated with the wax enough sugar to render it quite short, I formed it into a cone which was about an inch in diameter at the base, and perhaps six (6) inches high. This I set in a hive. In less than a minute it was covered with bees so completely that every part of it was hidden. It was all used by the bees, and from it they formed comb rapidly. I repeated the experiment a number of times through the summer and fall, and since, and as the result, I give the following:

"1st. If properly proportioned, so that the bees, in extracting the sugar, out off the wax in small particles, the bees, if they have room, will build it all into comb.

"2nd. I am satisfied that the comb built will weigh more than the wax given to them, as the sugar fed with it enables them to generate wax.

"3rd. When there was no honey in the flowers to be gathered, the bees would construct comb from this preparation, and store honey in it prepared from the sugar.

"4th. Pure wax, however prepared, was unnoticed, except during the honey season, while the bees constructed comb from wax prepared with sugar at all times.

"5th. Bees furnished with this mixture preserved their drones, and the queen continued to lay eggs.

"6th. Black bees worked on it as readily as Italians.

"The exact proportion of wax and sugar I am not able to state as I did not weigh it; but I should judge that one pound of wax would require between 3 and 4 pounds of sugar. If the wax is warm enough to melt the sugar or any part of it, when it cools it will be found too hard. If too little sugar is put in, the same result will follow. Further experiment will establish the proper proportions, and also the best methods of giving it. With wax at 30 cts. per pound, and white granulated sugar at 16½ cts., the cost of filling a hive with comb will cost about $1.50. In order to have the same amount of comb made by the bees from honey, it would require at least 50 pounds, which, at 30 cents, would be worth $15.00, or just ten times as much; or to state it differently:

To wax and sugar	$1 50
By honey saved	$15 00
Profit	$13 50

"This is not all. During a large part of every season, bees not only cease to gather honey, but consume their stores. By this discovery they can be kept at work preparing comb for another season, and as breeding will go on they will not only be richer for the stores saved, but stronger.

"During the season of 1871 I have made several experiments with a view of taking more complete advantage of this propensity for "reconstruction." And as one of the results I have the pleasure of announcing that I have succeeded in having the bees to build comb on wire cloth foundations. The wire cloth extending through the whole sheet of comb and being fastened at suitable points to the top, bottom, and sides of the frames, it can be placed in the extractor and subjected to as rapid a motion as is desired, without any danger of "breaking down," thus removing the greatest obstacle to the easy and thorough expulsion of the honey from the cells. While this was the only object I had in view, I found that I attained others of perhaps greater importance.

"I found that the queen did not in any instance, lay in the comb thus constructed, although I placed the sheets in the centre of the brood nest—consequently such sheets were always clear of brood filled with honey alone. This result will be appreciated by all who have any experience with the Mel-Extractor. These were not all the facts I ascertained, for, better still, I found that when one of those sheets of comb was placed in a hive, the queen would not only not deposit eggs in it, but that she would not pass it. In one instance, in a very populous colony, I placed a sheet of the wire foundation comb in a hive only having two sheets on the side of it where the queen happened to be. It remained there for two months, during which time I did not examine it, but then noticing that the colony was becoming very weak, I opened it and found that there was neither eggs nor brood in the wire sheet, nor in any other except the two the queen was on. She had been confined to two sheets of comb, 10x13 inches, which left her so little brooding room that the strength of the colony could not be maintained. I removed the wire sheet and she immediately occupied the others.

"There were other phenomena connected with this experiment that confirmed some other theories of mine in regard to swarming, a recital of which would render this paper too long. This last discovery enabled me to construct my hives of a continuous simple chamber without division boards, and at the same time to restrict the queen to any part of it I pleased, and to have a hive that was a perfect non-swarmer, or could be made to swarm at will."

MR. ADAIR—In answer to numerous questions, stated that in preparing the wire cloth he coated it with bees wax by dipping it into melted wax several times, or until enough wax adhered to it to furnish material for not only the foundation, but enough to build out the cells. It was better to have too much than too little. The wire cloth must then be fitted into the frames. To do so it is best to make the frames with the bars a little less than half width. Two of these, with the waxed wire cloth between, are nailed together to form one. The wax, where it goes into the frame, should be scraped off. Or the wire cloth may be inserted in the frames first, and the wax applied afterwards with a brush. It can not be put on so evenly with the brush, as by dipping in the wax, without great care. If too little wax is put on, the bees will denude some of the wire, and will not again cover it with wax or fill the meshes of the wire. If too much, it does no harm, as the bees will cut away any surplus.

To be continued

FOR SALE CHEAP.

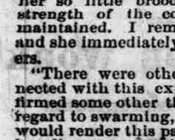
A HOUSE AND LOT, IN OGDEN.
Apply to
d125 6 JAMES McLAREN, of this Office.

ESCAPED!

FROM my custody on the evening of the 26th inst., who was held to answer on a charge of horse stealing in Tooele Co., a person calling himself Pat Laughlin; he is Irish, of slim build and tall, about 35 years old, light complected and hair very gray.

Any information given me of his whereabouts that will lead to his re-arrest, will be suitably rewarded by me at Tooele City.
d239 2 W. H. LEE, Sheriff of Tooele Co., Utah.

I HAVE ON HAND & FOR SALE,



A Choice Collection of
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Flowering Plants!
FLOWER POTS
For sale at pottery prices
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North Temple Street, Salt Lake City.

RAILROADS.

UTAH CENTRAL RAILROAD

Pioneer Line of Utah.

ON AND AFTER

MONDAY, JULY 17th
1871.

Trains will leave Salt Lake City daily at 8 a.m. and 2.45 p.m.; arrive at Ogden 7. a.m. and 1.45 p.m.; leave Ogden City at 8. a.m. and 5.30 p.m.; arrive at Salt Lake City 10 a.m. and 7.30 p.m.

In addition to the above

MIXED TRAINS
WILL RUN
DAILY, SUNDAYS EXCEPTED

Leaving Salt Lake City at 5.30 a.m. and arr. Ogden at 8 a. m.

Passengers will please purchase their tickets at the offices. Fifty cents additional will be charged when the fare is collected on the train.

For all information concerning Freight or Passage, apply to

M. H. DAVIS,
Ticket and Freight Agent
JOHN SHARP,
111 1y SUPERINTENDENT.

UTAH SOUTHERN RAILROAD!

ON AND AFTER AUG. 9, 1872,
MIXED TRAINS
WILL RUN
DAILY,

Leaving the Utah Central Railroad Depot, Salt Lake City at 7 a. m. and 3 p. m.

Sandy, (nearest point to Little Cottonwood Kanyon) at 8.10 a. m. and 4.10 p. m.

Arrive at Point at 8.50 a. m. and 4.50 p. m.

Leaving Point at 9.10 a. m. and 5.10 p. m.

Sandy at 10.10 a. m. and 6.10 p. m.

Arrive at Salt Lake at 11 a. m. and 7 p. m.

FARES:

Salt Lake	to	Cottonwood Station	50 cts.
"	"	Sandy	" $1.00
"	"	Draper	" 1.25
"	"	Point	" 1.75

Passengers will please purchase tickets at the Office.

M. H. DAVIS,
General Freight and Ticket Agent.
FERAMORZ LITTLE,
SUPERINTENDENT.
J243 tf

C. P. R. R.

February 8th 1872

San Francisco and Sacramento.

Leave going East.				Arrive from East
*4 40 p m	7.00 a m		San Fran	8 30 p m
4 35 "	7 35 "		Oakland	8 00 "
4 10 "	7 50 "		San Jose	8 30 "
5 35 "	8 35 "		...Niles...	7 05 "
9 25 "	1 .25 "		Lathr p	3 .4 "
8.48 "	11.50 "		Stockton	4.07 "
10 45 p m	1 45 p m		Sacr...to	2 2? p m
Arrive from the West				Leave

Sacramento, Colfax, Reno & Ogden.

Leave going East			Arrive from East
	2.00 p m	Sacra'to	2.00 p m
	5.40 "	...Colfax..	10.20 a m
	6.00 a m	...Reno...	2.10 "
	9.10 "	Win'mca	6.15 p m
	12 00 m	Battle Mt	3.25 "
	4.40 p m	...Elko...	8.40 a m
	6 20 a m	...Ogden..	3.30 p m
Arrive from West			Leave going West

Explanation.

For trains running from San Francisco, take the left hand columns and read downwards.
For trains running towards San Francisco take the right hand columns and read upwards.

*Sundays excepted †Sundays only.

T. H. GOODMAN, Gen'l Pass'r and Ticket Agt.
A. N. TOWNE, Gen'l Supt.

GEO H RICE, Agent.
SALT LAKE CITY.
Office with Marshall & Carter, over W. F. & Co's Bank.
d164tf

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A SPLENDID STOCK of the LATEST NOVELTIES.

Trimmed and Untrimmed
HATS AND BONNETS,
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SAWS REPAIRED
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GREATLY REDUCED RATES,
In order to make room for
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PORCELAIN LINED CAP!
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Arrive at Brigham at 5 45 a. m.
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Arrive at Brigham at 2-30 p. m.
Arrive at Hampton's at 9-00 p. m.

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d210 f

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Price $4,50 per Cord.
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ADMISSION, 50cts; CHILDREN, 25cts.
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Home Products and Manufactures.
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DECORATIONS
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Gilt,
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Buff and Brown,
In great abundance; also every variety in style of
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KEEPS CONSTANTLY ON HAND A GOOD Assortment of
WHITE AND RED
Pine Lumber,
PICKETS
and
LATH,
EQUAL TO ANY IN THE MARKET.
LUMBER & PICKETS,
3 1-2 Cts. per Foot,
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Utah, South-east Nevada and Montana,

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Passing through
Provo, Springville, Spanish Fork, Payson Salt Creek, Chicken Creek, Round Valley, Fillmore, Corn Creek, Beaver, Minersville, and
All the principal towns and Mining Camps in Southern Utah and South-east Nevada.
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HEAVY and SHELF HARDWARE
Ever Brought to this Territory, and
Cheap as the Cheapest!
Iron, Steel, Nails, Miners' Steel, Farm Implements, Miners' Outfits, Rubber Belting, Hose, Packing, Steam Gauges, Steam and Water Gauges, Stoves and Tinware always on hand.
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