

follower, and I would put one on each side, with a bee space between the outside of the hive and the follower. That gives room for a double row of bees there, when you have a large quantity of bees. There is more or less of heat, and you get those sections filled and sealed just about as quick as you do those in the centre.

In speaking about using separators perforated, if you use them, by all means use the follower as well. If you have a perforated separator, by all means have a perforated follower. I find them a good thing. I use them. There is this about them, they are that much additional furniture to the hive that you must carry over to the next year. I did not change my supers only in this way, that I used twenty-four sections in the super instead of twenty-eight.

Mr. Frith—You experimented.

Mr. Gemm—I took all my comb honey last year by that process.

Mr. Holtermann—With regard to the question of the best super, the object of using the half super is to accommodate weaker colonies; I would object to that.

Mr. Hall—I do not use it for that.

Mr. Holtermann—I understand that some are advocating using it in that way. Here is a point that I do not think has been brought out in bee-keeping very much, and I think if you consider it you will admit that the colony that will do the most propolizing is the weaker colony. If you get an exceedingly strong colony, or a very strong colony able to keep up the temperature and so on, that colony will propolize less, other things being equal, than the weaker colony. I have had no experience with these half supers. When we touch upon the question of the double bee space and divider at the side of the hive, I think it is exceedingly important for those who want to have a finely and well-finished product to have a double bee space and I believe it is an advantage to perforate that. As far as my experiments go, the perforation throughout the inner part of the hive, that is in the separator, I can see no great advantage in it.

Now, another suggestion: a supply dealer, from a business standpoint, is anxious to do as much business as possible and anxious to supply as much material as possible, but I can find no difference in this respect, that if you take metal, which you can buy perforated accurately and exactly, which is perfectly smooth, at less money, it will answer the purpose fully as well as the wooden divider, and all they have to do at the end of the season is to throw it into hot water and add a little lye

to it, and it is just as good one year as another. But if you use the wooden divider and you are anxious to produce a choice article, you practically throw those separators and dividers away every year, and it is difficult to get them quite as nice again. The wooden ones are comparatively expensive and you will find the zinc answers perfectly as well.

Mr. Hall—I do not say the small super is best. I do not say any super or hive is best: I am simply telling you what I am going to use and what I am using.

Mr. Holtermann—It is no longer an experiment with you.

Mr. Hall—I have tried three lots; I have got two hundred and I want three hundred more.

Mr. Heise—Would you advocate using all small supers or sufficient to cover the hives the first time?

Mr. Hall—It is very awkward to use large and small together, but the small are much nicer than the large ones. I do not mix them. I put on my last super onto the end where it is nearest done. It makes no difference about whether they are level on top. If you have large supers and small supers together you would have to have them so that they would be level on top. Have them all of one kind.

Mr. Post—Do you find any trouble in keeping your sun caps on when one side is up higher than the other?

Mr. Hall—You remember I am an old fashioned fellow and I have hives in my possession seventeen years old; yes, I have them twenty-two years of age. We commenced taking comb honey about nineteen years ago in sections. We took it then in two pound sections, six of them together sitting on the honey board with rests on them, and there was a glass at the ends, and we had to have a rim to cover up this glass, and I have those rims yet. Also in the spring when I want to keep them from the cold, I put a big cushion into that lid, and in the summer season I put it forward half an inch and put a cleat on top of the hive, on one edge. That leaves half an inch at the back and half an inch at the front for a current of air to go through, and I never had but one of those hives melt down.

Mr. Post—So, if we change it will necessitate a rim.

Mr. Hall—No sir.

Mr. Post—When one end is built up one would be higher than the other.

Mr. Hall—Just lay the sun cap on and lay a brick on it.

Mr. Smith—I may say I have used those supers this past season. I did not get