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and everything will go on charm-

ingly. (Applause.) Mr. Armstrong: I suppose after I receive 12 months schooling with the President the brass will be all right.

(Laughter).

President Evans called upon Mr. Couse to read a paper on "How one man alone managed 500 colonies for comb honeys in out-apiaries," by Mr. Hutchinson of Flint, Michigan, who, unfortunately, could not be present at the convention.

Mr. Couse read the paper as follows: HOW ONE MAN ALONE MANAGED 500 COLONIES FOR COMB HONEY

IN OUT-APIARIES.

My Canadian Friends,—I had hoped and expected to be with you at this convention, but, when at the Buffalo meeting, not dreaming of a confliction of dates, I promised to attend the meeting of the Minnesota State Beekeepers' Convention, which is now in session. The Chicago meeting which I had hoped to attend, is also now in session. Hoping that I may be with you next year, I will now proceed to tell how one man, alone, Mr. Chas. Keoppen, formerly of this place, but now in Virginia, managed 500 colonies, for comb honey, in out-apiaries.

He bought bees and increased them, and built up to 500 colonies under difficulties that would have discouraged any ordinary mortal. his first experience was that of buying 30 colonies of bees, for \$300.00, and seeing them die of foul brood the next year. He was green at the business and did not know enough about this disease to recognize it. The bees were in chaff hives, and, by the way, he continued to use those hives as long as he remained in Michigan. He disinfected them with a strong solution of carbolic acid; I don't know how strong, but he said that in ate the splinters off the broom with which it

was applied. I presume my friend combs McEvoy would say that this precauted up ion was unnecessary. Be that as it may, foul broad has never developed in those hives since they were thus ways, a treated.

After getting some experience, and listance a few crops of honey, his enthusiasm are suf and confidence became such that he bought bees, largely going into debt combs a for some of them. Then poor seasons came on, and not only did the bees that were expected to pay for them arvest selves, fail to store any honey, but had to be fed both spring and fall. It one instance he fed the bees in the spring to keep them from starving and cared for them all through the plarge summer, only to find that they mus be fed in the fall, and, rather than d this, he let them go back to the man of whom he had bought them, losin dthis s his time and spring feed. It wa under such discouragements that h most in worked away and built up five ou apiaries of nearly 100 colonies in each of brood Then came good seasons, and he wastarting able to buy houses and lots and precentre money in the bank. ed with s is furi

The wonderful thing about this that he has done all the work alo with his own hands. Briefly, methods are as follows: He winter most of his bees out of doors prote ing them with chaff. He waits un as late as possible in the fall, sets t hives in a long row, with boar at the back and front, then packs hives in chaff, putting two inches front, three or four at the back, five or six on the top, covering by so tr with shade-boards, covers, or wat the sect proof building paper. Some of wood is colonies are in the chaff hives ab ith this mentioned, but he does not like the little as they are two expensive, and but ns are c ing and heavy to handle to the ns, and advantage.

into her In the spring the bees are look the fact over, stores equalized, and all a lination.