Task 3.5

Part a)

Is this method secure?

Yes it is secure. At any time of delivering the box is locked by one or two padlocks. Since Alice and Bob are the only owner of the keys to unlock the box and the box is always send locked, it can’t be open by the transmitter.

Does it also work with cryptographic means? Which problems could arise?

In my opinion it could be problematic, that the message is encrypted two times. The problem could arise when Bob tries to remove his encryption, after he got the message back from Alice. Since Alice didn’t decrypt the message and only encrypts the already encrypted text, bob cannot decrypt the message by his key anymore.

Part b)