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"In Tanzania, hive systems in use include logs, top bars and frames, each with pros and cons regarding management and production. It is evident that honey and beeswax available in the country's market chains are collected from log and top bar hives. The challenges faced the beekeeping industry at production level include low occupancy rates, durability of the hives less than five years, and a lack of interchangeability. This study was conducted to establish a mixed system of top bars and frames within a box hive, as well as to design a standard octagon shape hive. Three carpentry workshops were utilized at different times: one at Sao Hill Forest Plantation in Iringa, and two in Dar es Salaam - Fine wood works limited and individual carpenter. The designed mixed hive systems consist of sized frames and top bars that fit both top and frame hives, a catcher box combining of top bars and frames, and cylindrical octagonal hives with respective catchers. The systems were tested in three different areas: Mufindi, Iringa, and Mwanga districts, demonstrating the advantage of interchangeable and the ability to transfer swarm of bees from catcher to the top or frame hive. The octagon hive demonstrated movable combs compare to log hive, easy to be made by local Carpenter and adopting forest environment. Additionally, the mixed hive systems have standard measurements that can be replicated to carpenters and interested beekeepers. It is recommended to introduce mixed hive systems to small holder beekeepers in various foraging habitats to test the acceptance of good beekeeping practices and production efficiency."