

Inventor: Carl Cooper

Patent Number: Available on request

Invention Title: Rubber Tree Rain Guard Seal Assembly

Start Date: 04/12/2022

Patent Issue Date: 07/25/2023

ABSTRACT:

[001] The main objective of this invention is to improve the efficiency and service life of a rubber tree rain guard seal. The performance of existing rubber tree rain guard seals depends on a fixed mechanical and or chemical attachment of the seal to the tree. These methods of attachment prevent the seal from expanding with the circumferential growth of the tree resulting in premature seal failure and damage to the tree within a year of operation. In this invention the seal is comprised of five components that are not fixed to the tree, allowing the seal to expand along with tree growth. An adjustable outer seal connector regulates the pressure required to establish consistent sealing contact against the tree, thus providing extended service life of the seal assembly. The seal assembly comes apart for easy maintenance.