Recursive Definition of $(b;s:e)$ for any selector s

Let b, g be functions or variables of some type.
Let s be a selector for b.
Let e be an expression.

Then:

1. $(b;\varepsilon:g) =_{df} g$

2. $(b;[i]\circ s:e)[j] =_{df} \begin{cases} (\alpha) & (b[j];s:e) & \text{if } i=j \\ (\beta) & b[j] & \text{if } i\neq j \end{cases}$