$$PEGREG : PEG \rightarrow REG \rightarrow REG$$

$$PEGREG(c, r) = c.r \tag{1}$$

$$PEGREG(P1 \cdot P2, r) = PEGREG(P1, PEGREG(P2, r)) \tag{2}$$

$$PEGREG(P1/P2, r) = PEGREG(P1, r) \cup (PEGREG(P2, r) \cap \neg PEGREG(P1, .*)) \tag{3}$$

$$PEGREG(P1*, r) = PEGREG(P1, \varepsilon) * \cdot (r \cap \neg PEGREG(P1, .*)) \tag{4}$$