$$A_{1} \xrightarrow{f_{A}} A_{2} \xrightarrow{g_{A}} A_{3} \xrightarrow{\delta_{A}}$$

$$\parallel \qquad \downarrow^{i_{2}} \qquad \downarrow^{y}$$

$$A_{1} \xrightarrow{\downarrow_{i_{2}f_{A}}} B_{2} \xrightarrow{-x^{-}} E \xrightarrow{-\eta^{-}}$$

$$\downarrow^{p_{2}} \qquad \downarrow^{z}$$

$$\downarrow^{z}$$

$$C_{2} = C_{2}$$

$$\downarrow^{\varepsilon_{2}} \qquad \downarrow^{(g_{A})_{*}\varepsilon_{2}}$$