Ye
$$G = (\lambda f. (\lambda x. (\alpha x))[\lambda y. f(\lambda w. ((yy)w))]G$$

$$= \lambda x. (xx)[\lambda y. G(\lambda w. ((yy)w))]$$

$$= [\lambda y. G(\lambda w. ((yy)w)]$$

$$= G(\lambda w. ((yy)w)] - G$$
Because note yy

is $[\lambda y. G(\lambda w. ((yy)w)]$

$$[\lambda y. G(\lambda w. ((yy)w)]$$

$$[\lambda y. G(\lambda w. ((yy)w)]$$

$$= G((Ye G))$$