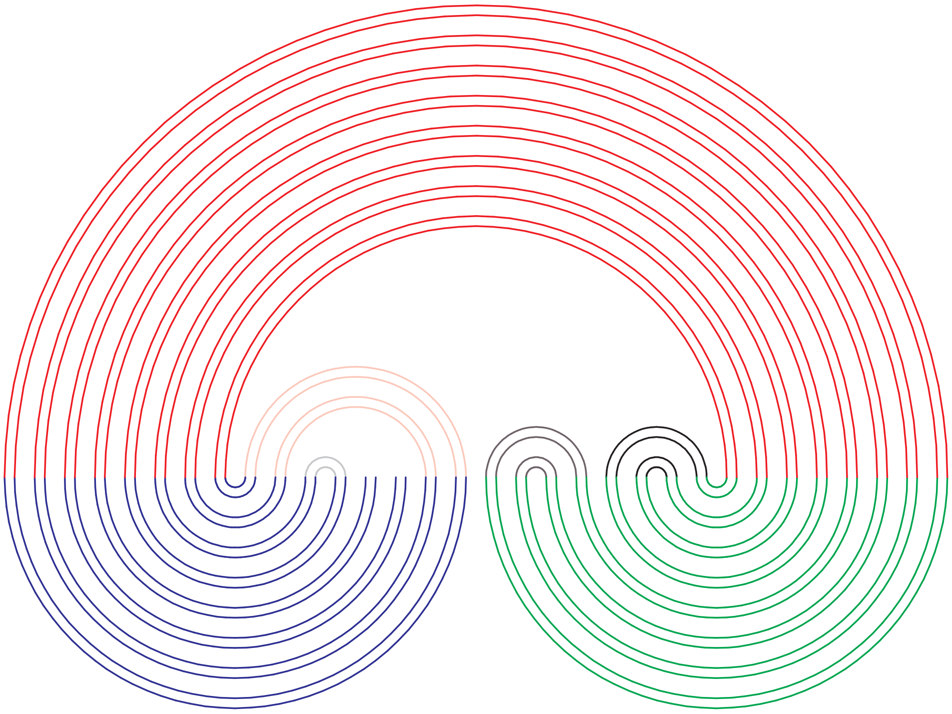

Figure 13.1.7: (A) Cruller

13.1.7 Cruller

The *Cruller* continuum is beautiful.

13.1.8 Double Buckethandle

The *Cantor* 1/5-*discontinuum* C_5 is created using the procedure of deleting the second and the fourth segments from five equal segments (instead of the middle third for the Cantor Ternary Set). C_5 is the set of the reals in the unit interval which can be represented without 1-s and 3-s in the form

$$\sum_{n=1}^{\infty} \frac{a_n}{5^n} \quad .$$

The *Double Buckethandle* continuum is the union of:

(i) the half circles in the lower plane going through points of $C_5 \cap \{x : 2/5^{n+1} \leq x \leq 1/5^n\}$ with the centre $7/10 \cdot 5^n$,

(ii) the half circles in the upper plane going through points of $C_5 \cap \{x : 2/5^{n+1} \leq 1 - x \leq 1/5^n\}$ with the centre $1 - 7/10 \cdot 5^n$.

We can find more in [55, p.205 - p.206].