Claim

1. A cooling apparatus for cooling a waterflow, the cooling apparatus comprising:

a first evaporative cooler adapted to cool the waterflow therethrough,

a second evaporative cooler adapted to receive and cool the waterflow from the first evaporative cooler therethrough,

wherein the second evaporative cooler is adapted to receive an airflow therethrough to cool the waterflow therethrough and the first evaporative cooler is adapted to receive the airflow therethrough from the second evaporative cooler to cool the waterflow therethrough, and

a deflector adapted to deflect the waterflow from the first evaporative cooler to the second evaporative cooler and allow the airflow from the second evaporative cooler to the first evaporative cooler therethrough.

2. The cooling apparatus according to claim 1, wherein the deflector comprises a first side and a second side behind the first side, wherein the deflector is adapted to direct the waterflow from the first evaporative cooler to the second evaporative cooler on the first side and allow the airflow therethrough from the second evaporative cooler to the first evaporative cooler to flow from the second side to the first side.

3. The cooling apparatus according to claim 1 or 2, wherein the deflector comprises a base layer comprising a plurality of openings adapted to allow the airflow through and a plurality of overhangs spaced apart from each other and overhanging the plurality of openings, wherein the plurality of overhangs are adapted to allow the airflow from the plurality of openings to flow therebetween and prevent the waterflow into the plurality of openings and direct the waterflow into the second evaporative cooler.

4. The cooling apparatus according to any one of claims 1 to 3, wherein the deflector comprises a louvred panel comprising a plurality of overlapping panels and a plurality of gaps therebetween, wherein, in operation, the waterflow from the first evaporative cooler flows onto the plurality of overlapping panels and is directed into the second evaporative cooler and the airflow from the second evaporative cooler flows through the plurality of gaps.

5. The cooling apparatus according to claim 3, wherein the base layer comprising the plurality of openings adapted to allow the airflow through, wherein the base layer is adapted to receive and channel the waterflow to the second evaporative cooler, and a top layer comprising the plurality of overhangs spaced apart from each other and overhanging the plurality of openings, wherein the each of the plurality of overhangs are adapted to receive and channel the waterflow to the base layer.

6. The cooling apparatus according to claim 3, wherein the base layer comprises a plurality of channels spaced apart from each other to form the plurality of openings therebetween, wherein the plurality of channels are adapted to channel the waterflow to the second evaporative cooler, and wherein the plurality of overhangs comprises a plurality of channels.

7. The cooling apparatus according to any one of claims 1 to 6, further comprising a plurality of guides spaced apart from each other and adapted to guide the airflow from the second evaporative cooler to the first evaporative cooler.

8. The cooling apparatus according to any one of claims 1 to 7, wherein the plurality of guides are adapted to guide the airflow from the second evaporative cooler to the deflector.

9. The cooling apparatus according to any one of claims 1 to 8, wherein the first evaporative cooler is disposed above the second evaporative cooler.

10. A cooling method adapted to cool a waterflow, the method comprising,

receiving an airflow through a first evaporative cooler from a second evaporative cooler to cool the waterflow through the first evaporative cooler,

receiving an airflow through the second evaporative cooler to cool the waterflow from the first evaporative cooler through the second evaporative cooler,

deflecting the waterflow from the first evaporative cooler to the first evaporative cooler and allowing the airflow from the second evaporative cooler to the first evaporative cooler by a deflector.

11. The method according to claim 10, deflecting the waterflow and allowing the airflow comprises channelling the waterflow from the first evaporative cooler to the second evaporative cooler and allowing the airflow from the second evaporative cooler to the first evaporative cooler through the deflector.

12. The method according to claim 10 or 11, deflecting the waterflow and allowing the airflow comprises directing the waterflow from the first evaporative cooler to the second evaporative cooler on a first side of the deflector and allowing the airflow from the second evaporative cooler to the first evaporative cooler to flow from a second side of the deflector to the first side.

13. The method according to any one of claim 10 to 12, wherein deflecting the waterflow and allowing the airflow comprises allowing the airflow through a plurality of openings of a base layer, allowing the airflow through the plurality of openings to flow between a plurality of overhangs spaced apart from each other and overhanging the plurality of openings, preventing the waterflow into the plurality of openings and directing the waterflow into the second evaporative cooler.

14. The method according to any one of claims 10 to 13, wherein deflecting the waterflow and allowing the airflow comprises allowing the airflow through a plurality of openings of a base layer for receiving and channelling the waterflow to the second evaporative cooler, receiving and channelling the waterflow to the base layer via a top layer comprising a plurality of overhangs spaced apart from each other and overhanging the plurality of openings.

15. The method according to any one of claims 10 to 14, further comprising guiding the airflow from the second evaporative cooler to the first evaporative cooler.

16. The method according to any one of claims 10 to 15, further comprising guiding the airflow from the second evaporative cooler to the deflector.