What is claimed is:

1. A reusable metal pallet comprising:

a rectangular outer perimeter frame having four corners and four side bars, each corner comprising a corner angular member junction, each of the side bars having a length and two ends, each end of each side bar being coupled to a corner angular member junction at a corner of the rectangular outer perimeter frame;

a rectangular inner perimeter frame located inside the rectangular outer perimeter frame, having four side elements, each of the side elements having a length and two ends, each end of each side bar being coupled to a corner angular member junction at a corner of the rectangular outer perimeter frame;

four middle angular member junctions located between the rectangular inner perimeter frame and the rectangular outer perimeter frame, each middle angular member junction being coupled to a side bar of the rectangular outer perimeter frame midway between the two ends of the side bar and to a side element of the rectangular inner perimeter frame midway between the two ends of the side element;

each of the corner angular member junctions and the middle angular member junctions comprising an upward-extending flange; and

eight ski-shaped feet mounted to the side elements of the inner perimeter frame and to the side bars of the outer perimeter frame, each ski-shaped foot comprising two ends and a middle base between the two ends forming a downward-projecting piece with an open center, each of the eight ski-shaped feet being located between a corner angular member junction and a middle angular member junctions;

the ski-shaped feet and the upward-extending flanges of the corner angular member junctions and the middle angular member junctions being arranged such that when two reusable metal pallets are stacked, the ski-shaped feet of an upper pallet nests within the ski-shaped feet of a lower pallet, and the upward-

extending flanges on the lower pallet at least partially cover an outer surface of the outer peripheral frame of the upper pallet.

2. The reusable metal pallet of claim 1 in which the side bars of the outer peripheral frame are flat.

3. The reusable metal pallet of claim 1 in which the side elements of the inner peripheral frame are tubular.

4. The reusable metal pallet of claim 1 in which the side elements of the inner peripheral frame are joined to each other.

5. The reusable metal pallet of claim 1, further comprising a platform mounted to the side elements of the inner peripheral frame, covering an interior of the inner peripheral frame between the side elements.

6. The reusable metal pallet of claim 5, further comprising a beam truss supporting an underside of the platform, fastened to the side elements of the inner peripheral frame.

7. The reusable metal pallet of claim 1 in which the ski-shaped feet are spaced apart a distance such that parallel forks of a forklift fit within the open centers of the ski-shaped feet.

8. A reusable metal pallet system comprising:

a metal pallet base comprising:

a rectangular outer perimeter frame having four corners and four side bars, each corner comprising a corner angular member junction, each of the side bars having a length and two ends, each end of each side bar being coupled to a corner angular member junction at a corner of the rectangular outer perimeter frame;

a rectangular inner perimeter frame located inside the rectangular outer perimeter frame, having four side elements, each of the side elements having a length and two ends, each end of each side bar being coupled to a corner

angular member junction at a corner of the rectangular outer perimeter frame;

four middle angular member junctions located between the rectangular inner perimeter frame and the rectangular outer perimeter frame, each middle angular member junction being coupled to a side bar of the rectangular outer perimeter frame midway between the two ends of the side bar and to a side element of the rectangular inner perimeter frame midway between the two ends of the side element;

each of the corner angular member junctions and the middle angular member junctions comprising an upward-extending flange; and

eight ski-shaped feet mounted to the side elements of the inner perimeter frame and to the side bars of the outer perimeter frame, each ski-shaped foot comprising two ends and a middle base between the two ends forming a downward-projecting piece with an open center, each of the eight ski-shaped feet being located between a corner angular member junction and a middle angular member junctions;

the ski-shaped feet and the upward-extending flanges of the corner angular member junctions and the middle angular member junctions being arranged such that when two reusable metal pallets are stacked, the ski-shaped feet of an upper pallet nests within the ski-shaped feet of a lower pallet, and the upward-extending flanges on the lower pallet at least partially cover an outer surface of the outer peripheral frame of the upper pallet; and

a carton mounted to the top of the base pallet, secured to the base pallet within the upward-extending flanges of the corner angular member junctions and the middle angular member junctions.

9. The reusable metal pallet system of claim 8 in which the side bars of the outer peripheral frame are flat.

10. The reusable metal pallet system of claim 8 in which the side elements of the inner peripheral frame are tubular.

11. The reusable metal pallet system of claim 8 in which the side elements of the inner peripheral frame are joined to each other.

12. The reusable metal pallet system of claim 8, further comprising a platform mounted to the side elements of the inner peripheral frame, covering an interior of the inner peripheral frame between the side elements.

13. The reusable metal pallet system of claim 12, further comprising a beam truss supporting an underside of the platform, fastened to the side elements of the inner peripheral frame.

14. The reusable metal pallet system of claim 8 in which the ski-shaped feet are spaced apart a distance such that parallel forks of a forklift fit within the open centers of the ski-shaped feet.

15. The reusable metal pallet system of claim 8 in which the carton is foldable.

16. The reusable metal pallet system of claim 8 in which the carton is formed of corrugated material.

17. The reusable metal pallet system of claim 16 in which the corrugated material is corrugated cardboard.

18. The reusable metal pallet system of claim 16 in which the corrugated material is corrugated plastic.

19. The reusable metal pallet system of claim 16 in which the carton is permanently bonded to the pallet base.

20. The reusable pallet of claim 1 wherein the middle angular junction further comprises:

a first connecting tube parallel to a second connecting tube whereby a first end and a second end of the first and second connecting tubes are perpendicular to, and connected to the inner perimeter frame, the upward extending flange, and

the rectangular outer perimeter frame to provide support for and receive a nesting pallet

What is claimed is:

1. A reusable metal pallet comprising:

a rectangular outer perimeter frame having four corners and four side bars, each corner comprising a corner angular member junction, each of the side bars having a length and two ends, each end of each side bar being coupled to a corner angular member junction at a corner of the rectangular outer perimeter frame;

a rectangular inner perimeter frame located inside the rectangular outer perimeter frame, having four side elements, each of the side elements having a length and two ends, each end of each side bar being coupled to the corner angular member junction at a corner of the rectangular outer perimeter frame;

four middle angular member junctions located between the rectangular inner perimeter frame and the rectangular outer perimeter frame, each middle angular member junction being coupled to a side bar of the rectangular outer perimeter frame midway between the two ends of the side bar and to a side element of the rectangular inner perimeter frame midway between the two ends of the side element;

each of the corner angular member junctions and the middle angular member junctions comprising an upward-extending flange; and

eight ski-shaped feet mounted to the side elements of the inner perimeter frame and to the side bars of the outer perimeter frame, each ski-shaped foot comprising two ends and a middle base between the two ends forming a downward-projecting piece with an open center, each of the eight ski-shaped feet being located between a corner angular member junction and an adjacent middle angular member junction;

the ski-shaped feet and the upward-extending flanges of the corner angular member junctions and the middle angular member junctions being arranged such that when an upper first reusable metal pallet and a lower second reusable metal pallet are stacked, the ski-shaped feet of the upper first reusable metal pallet nests within the ski-shaped feet of the lower second reusable metal pallet, and the upward-extending flanges on the lower second reusable metal pallet at least partially cover an outer surface of the outer peripheral frame of the upper first reusable metal pallet.

2. The reusable metal pallet of claim 1 in which the side bars of the outer peripheral frame are flat.

3. The reusable metal pallet of claim 1 in which the side elements of the inner peripheral frame are tubular.

4. The reusable metal pallet of claim 1 in which the side elements of the inner peripheral frame are joined to each other.

5. The reusable metal pallet of claim 1, further comprising a platform mounted to the side elements of the inner peripheral frame, covering an interior of the inner peripheral frame between the side elements.

6. The reusable metal pallet of claim 5, further comprising a beam truss supporting an underside of the platform, fastened to the side elements of the inner peripheral frame.

7. The reusable metal pallet of claim 1 in which the ski-shaped feet are spaced apart a distance such that parallel forks of a forklift fit within the open centers of the ski-shaped feet.

8. The reusable pallet of claim 1 wherein each of the middle angular junctions further comprises:

a first connecting tube, having a first end and a second end, parallel to a second connecting tube, having a first end and a second end, whereby the first end of the first and the second connecting tube is perpendicular to, and attached to the inner perimeter frame, and the second end of the first and the second connecting tube is perpendicular to, and attached to each of the upward extending flanges and the rectangular outer perimeter frame to provide support for and receive a nesting pallet.

9. A reusable metal pallet system comprising:

a metal pallet base comprising:

a rectangular outer perimeter frame having four corners and four side bars, each corner comprising a corner angular member junction, each of the side bars having a length and two ends, each end of each side bar being coupled to a corner angular member junction at a corner of the rectangular outer perimeter frame;

a rectangular inner perimeter frame located inside the rectangular outer perimeter frame, having four side elements, each of the side elements having a length and two ends, each end of each side bar being coupled to the corner angular member junction at a corner of the rectangular outer perimeter frame;

four middle angular member junctions located between the rectangular inner perimeter frame and the rectangular outer perimeter frame, each middle angular member junction being coupled to a side bar of the rectangular outer perimeter frame midway between the two ends of the side bar and to a side element of the rectangular inner perimeter frame midway between the two ends of the side element;

each of the corner angular member junctions and the middle angular member junctions comprising an upward-extending flange; and

eight ski-shaped feet mounted to the side elements of the inner perimeter frame and to the side bars of the outer perimeter frame, each ski-shaped foot comprising two ends and a middle base between the two ends forming a downward-projecting piece with an open center, each of the eight ski-shaped feet being located between a corner angular member junction and an adjacent middle angular member junction;

the ski-shaped feet and the upward-extending flanges of the corner angular member junctions and the middle angular member junctions being arranged such that when an upper first reusable metal pallet and a lower second reusable metal pallet are stacked, the ski-shaped feet of the upper first reusable metal pallet nests within the ski-shaped feet of the lower second reusable metal pallet, and the upward-extending flanges on the lower second reusable metal pallet at least partially cover an outer surface of the outer peripheral frame of the upper first reusable metal pallet; and

a carton mounted to the top of the base pallet, secured to the base pallet within the upward-extending flanges of the corner angular member junctions and the middle angular member junctions.

10. The reusable metal pallet system of claim 9 in which the side bars of the outer peripheral frame are flat.

11. The reusable metal pallet system of claim 9 in which the side elements of the inner peripheral frame are tubular.

12. The reusable metal pallet system of claim 9 in which the side elements of the inner peripheral frame are joined to each other.

13. The reusable metal pallet system of claim 9, further comprising a platform mounted to the side elements of the inner peripheral frame, covering an interior of the inner peripheral frame between the side elements.

14. The reusable metal pallet system of claim 13, further comprising a beam truss supporting an underside of the platform, fastened to the side elements of the inner peripheral frame.

15. The reusable metal pallet system of claim 9 in which the ski-shaped feet are spaced apart a distance such that parallel forks of a forklift fit within the open centers of the ski-shaped feet.

16. The reusable metal pallet system of claim 9 in which the carton is foldable.

17. The reusable metal pallet system of claim 9 in which the carton is formed of corrugated material.

18. The reusable metal pallet system of claim 17 in which the corrugated material is corrugated cardboard.

19. The reusable metal pallet system of claim 17 in which the corrugated material is corrugated plastic.

20. The reusable metal pallet system of claim 17 in which the carton is permanently bonded to the pallet base.