What is claimed is:

1. A power-assisted apparatus for tightening and untightening union wing nuts, the apparatus comprising:

a body adapted to encircle a union wing nut and movable between a closed position wherein the body engages the union wing nut, and an open position wherein the body releases the union wing nut, the body including:

an inner annulus having a gear-teeth outer circumference and a plurality of lug slots adapted to receive into engagement with a plurality of lugs of the union wing nut when the inner annulus engages the lugs during the closed position, and

an outer casing adapted to be mounted onto the inner annulus to retain the inner annulus therein and securable to render the body in ~~during~~ the closed position;

a pinion gear disposed at the outer casing and adapted to engage with the gear-teeth of the inner annulus during the closed position; and

a power-assisted actuator adapted to drive the pinion gear into turning the inner annulus together with the union wing nut during the closed position.

2. The power-assisted apparatus of claim 1, wherein the power-assisted actuator includes one of a hydraulic piston, an electric motor and a pneumatic gun.

3. The power-assisted apparatus of any of claims 1 to 2, wherein the outer casing includes at least a handle.

4. The power-assisted apparatus of any of claims 1 to 3, wherein the outer casing includes a hinge mechanism to allow the outer casing move between the open position and the closed position.