CLAIMS

1. A method for manufacturing a 3D-printed object, comprising:
    a) printing a 3D object on a printing bed, wherein at least a part of said 3D object is integrated with a portion of said printing bed;
    b) extracting the portion of the printing bed integrated with the 3D object to form a 3D printed object; and
    c) processing a surface of the extracted portion of the printing bed to form a mirror surface of the 3D printed object.
2. The method of claim 1, wherein processing the surface comprises mirror machining to achieve optical quality of the mirror surface.
3. The method of claim 1, wherein the printing bed comprises a material selected from the group consisting of: metal alloys, composites, glass substrates, ceramics or any other suitable lightweight material that offers a low coefficient of thermal expansion.
4. The method of claim 1, wherein the 3D object is printed using a material selected from the group consisting of: metal alloys, composites, glass substrates, or ceramics.
5. The method of claim 1, further comprising post-processing of the 3D-printed object after extraction.
6. The method of claim 1, wherein the manufacturing of the 3D-printed object configured to produce a 3D-printed object with a mirror surface of any desired type, thus said produced 3D-printed object is suitable for applications ranging from basic reflective purposes to advanced optical systems.
7. A 3D printed product manufactured by the method of claim 1.