CLAIMS

1. An article comprising:

a platen comprising:

a body and a receiving surface configured for movement of a coated abrasive thereon;

at least one opening intersecting the receiving surface and configured to allow for flow of an ejection material therethrough;

at least one coating disposed over at least a portion of the receiving surface of the platen;

and wherein the at least one coating comprises a Shore A hardness of not greater than 100A.

2. An article comprising:

a platen comprising a body and a receiving surface configured for movement of a coated abrasive thereon;

at least two openings intersecting the receiving surface and configured to allow for flow of an ejection material therethrough;

at least one coating disposed over at least a portion of the receiving surface of the platen, and wherein the at least one coating comprises a plurality of layers including a first layer overlying the receiving surface and a second layer overlying the first layer.

3. An article comprising:

a platen comprising a body and a receiving surface configured for movement of a coated abrasive thereon, and at least one opening intersecting the receiving surface and configured to allow for flow of an ejection material therethrough, wherein the receiving surface comprises a convex contour along a lateral cross-sectional plane of the body, at least one coating disposed over at least a portion of the receiving surface of the platen, and wherein the at least one coating comprises a Shore A hardness of not greater than 100A.

4. The article of claim 1, wherein the coating comprises an opening corresponding with the at least one opening on the receiving surface of the platen.

5. The article of claim 1, wherein the coating comprises a plurality of layers including a first layer overlying the receiving surface and a second layer overlying the first layer.

6. The article of claim 5, wherein the first layer comprises a material selected from the group consisting of an elastic polymer, felt, cork, and rubber.

7. The article of claim 5, wherein the second layer comprises a material selected from the group consisting of graphite or polytetrafluoroethylene (PTFE).

8. The article of claim 5, wherein the second layer comprises a coefficient of friction of less than 0.5.

9. The article of claim 5, wherein the second layer comprises a thickness of at least 1 mm and not greater than 5 mm.

10. The article of claim 3, wherein the body comprises a thickness defined as the distance between a bottom surface of the body and the receiving surface of the body as viewed from a lateral cross-sectional plane of the body, and wherein the thickness varies along the lateral cross-sectional plane of the body.

11. The article of claim 3, wherein the body includes a maximum height defined as the maximum distance between a bottom surface of the body and the receiving surface of the body, a minimum height defined as the minimum distance between the bottom surface of the body and the receiving surface of the body, and wherein the at least one opening is positioned at the maximum height of the receiving surface.

12. The article of claim 1, wherein the platen comprises at least three openings, and wherein the at least three openings are positioned in a straight line or a triangular orientation with respect to each other.

13. The article of claim 5, wherein the second layer comprises a thickness that is less than a thickness of the first layer.

14. The article of claim 2, further comprising an inlet configured to provide the ejection material to an interior passageway within the body.

15. The article of claim 14, wherein the inlet is positioned on a side surface of a distal end of the platen.