9. The process as claimed in the preceding claim, characterized in that one and the same region of the glass material is moved under the beam of mono- and multicharged ions of a gas according to a plurality, N, of passes at the rate V_D.

10. The process as claimed in any one of the preceding claims, characterized in that the glass material is chosen from the list of the soda-lime glasses.

11. The process as claimed in any one of the preceding claims, wherein the treated glass material is characterized in that the reflection of an incident wave in the visible region is reduced to less than half.

12. The use of the treatment process as claimed in any one of claims 1 to 10 to treat a bulk glass part chosen from the list consisting of a touch screen, a spectacle lens, a lens of an optical device, a window of a building and an optical fiber.