CLAIMS

What is claimed is:

1. A material conveying device, characterized by comprising:

a material conveying groove;

a scraper chain assembly, comprising:

an annular chain, the chain being able to circularly move relative to the material conveying groove along a material conveying direction;

scrapers, arranged on the chain at intervals, each of the scrapers comprising:

a scraper body, having a bottom surface close to the material conveying groove and a top surface opposite to the bottom surface;

a supporting body, arranged on the bottom surface of the scraper body, wherein the supporting body is provided with a mounting surface and the mounting surface forms a part of the bottom surface; the mounting surface is provided with a rolling body, and the rolling body is able to support the scraper body when the scraper is located above the material conveying groove; moreover,

the supporting body is a nonmetallic elastomer;

a mounting groove is formed in the bottom surface of the scraper body, and the supporting body is able to be embedded into the mounting groove; or the supporting body is integrally formed on the bottom surface of the scraper body; and

a driving device, being able to drive the chain to rotate circularly relative to the material conveying groove along a material conveying direction.

2. The material conveying device according to any one of claim 1, wherein a material of the supporting body is a macromolecular polyurethane material.

3. The material conveying device according to any one of claim 1, further comprising:

a rolling support, arranged on the mounting surface of the supporting body, wherein a rolling groove is formed in the rolling support; and

the rolling body is a roll ball mounted in the rolling groove.

4. The material conveying device according to claim 3, wherein the rolling support is detachably arranged on the mounting surface of the supporting body.

5. The material conveying device according to claim 3, further comprising an auxiliary roll ball layer arranged in the rolling groove and configured to support the roll ball, the auxiliary roll ball layer comprising a plurality of auxiliary roll balls.

6. A scraper, comprising:

a scraper body, having a bottom surface and a top surface opposite to the bottom surface;

a supporting body, formed on the bottom surface of the scraper body, wherein the supporting body is provided with a mounting surface and the mounting surface forms a part of the bottom surface; the mounting surface is provided with a rolling body, and the rolling body is able to support the scraper body when the scraper is located at a mounting position; moreover,

the supporting body is a nonmetallic elastomer; and

a mounting groove is formed in the bottom surface of the scraper body, and the supporting body is able to be embedded into the mounting groove; or the supporting body is integrally formed on the bottom surface of the scraper body.