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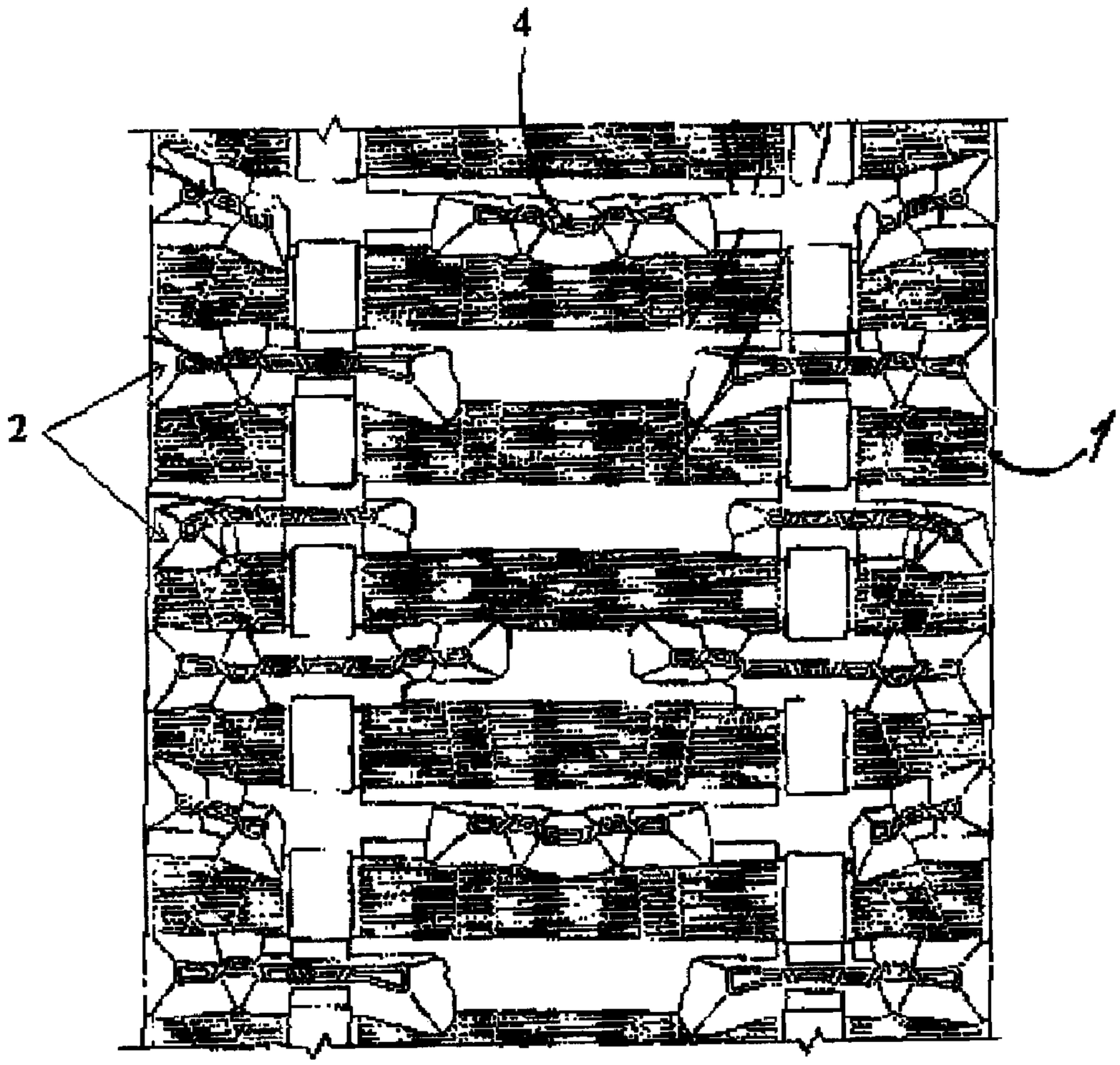
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(54) Title: POLYMERIC ENDLESS TRACK



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POLYMERIC ENDLESS TRACK

Title of the Invention

[0001] Polymeric Endless Track

Summary of the Invention

[0002] The endless track of the present invention comprises a main body 7 made of UHMW polymer reinforced with polyester cords. The surface engaging lugs 8 are also made of UHMW polymer and may be coated with rubber or other elastomeric material to improve grip on hard surfaces such as ice. The surface engaging lugs 8 can also be made only of UHMW polymer. The inner drive lugs are made of UHMW polymer.

[0003] According to one aspect of the present invention, the endless track is mainly made with UHMW polymer and reinforced with embedded polyester cords. The outer ground engaging lugs can also be coated with elastomeric material such as rubber.

[0004] According to another aspect, the UHMW polymer can generally replace the reinforcing web and the reinforcing transverse rods. The UHMW polymer could also replace the metal clips.

[0005] According to another aspect, the flexible lug less zone of the endless track are made of UHMW polymer.

[0006] According to another aspect, the moulding of the track is effected in two steps. Temperature transition zones are used at the longitudinal extremities of the track body in the first step to assure a solid bond between the track body and the UHMW polymer powder during the second step.

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[0007] The endless track of the present invention would have the following advantages:

[0008] – Lighter track from the use of lighter material;

[0009] – The use of less material since the UHMW polymer of the track body can structurally replace the embedded transverse reinforcing rods and the reinforcing web and fabric;

[0010] – Better acceleration since the track is lighter and thus easier to accelerate.

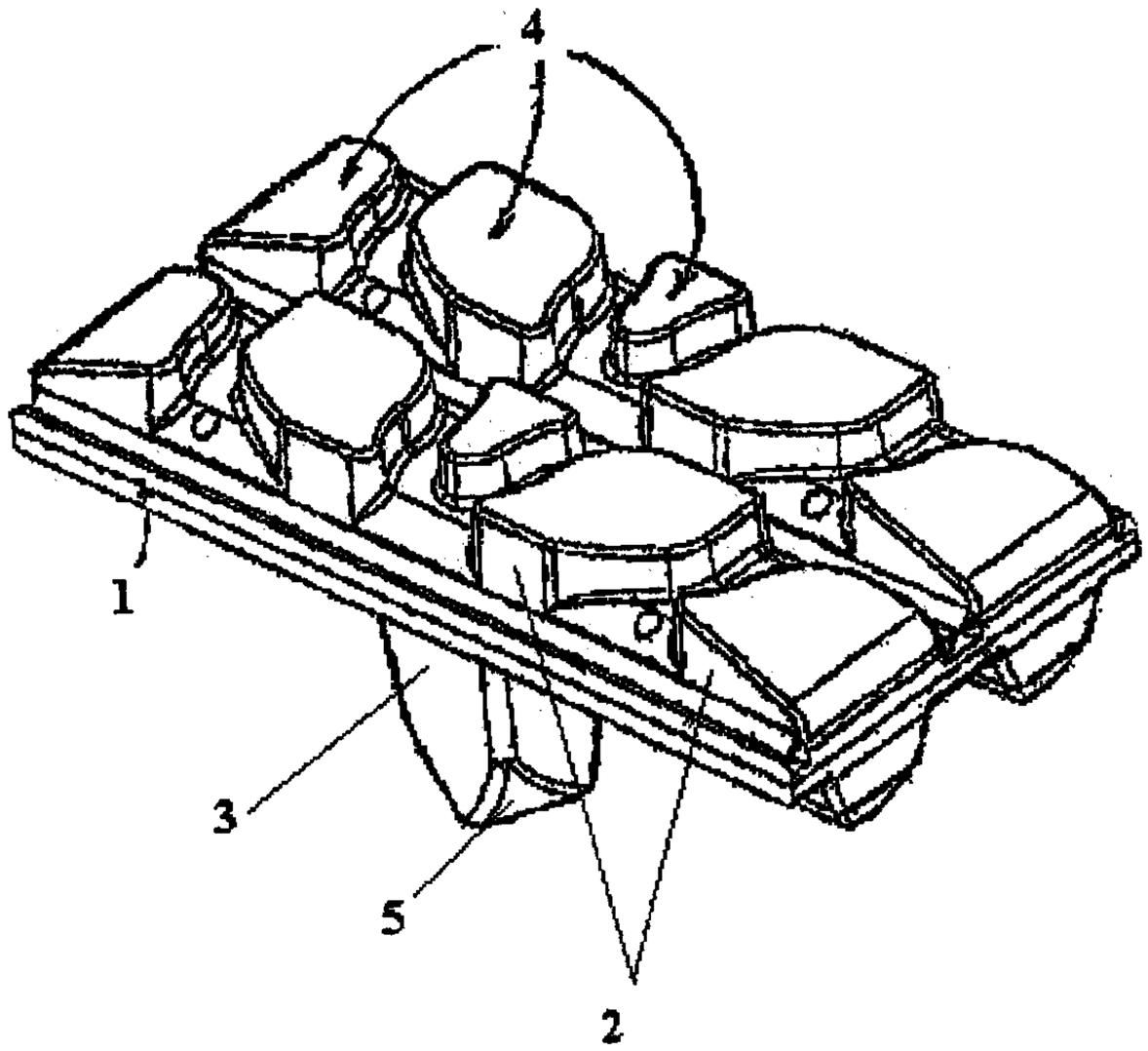
Application number / numéro de demande: 2537042

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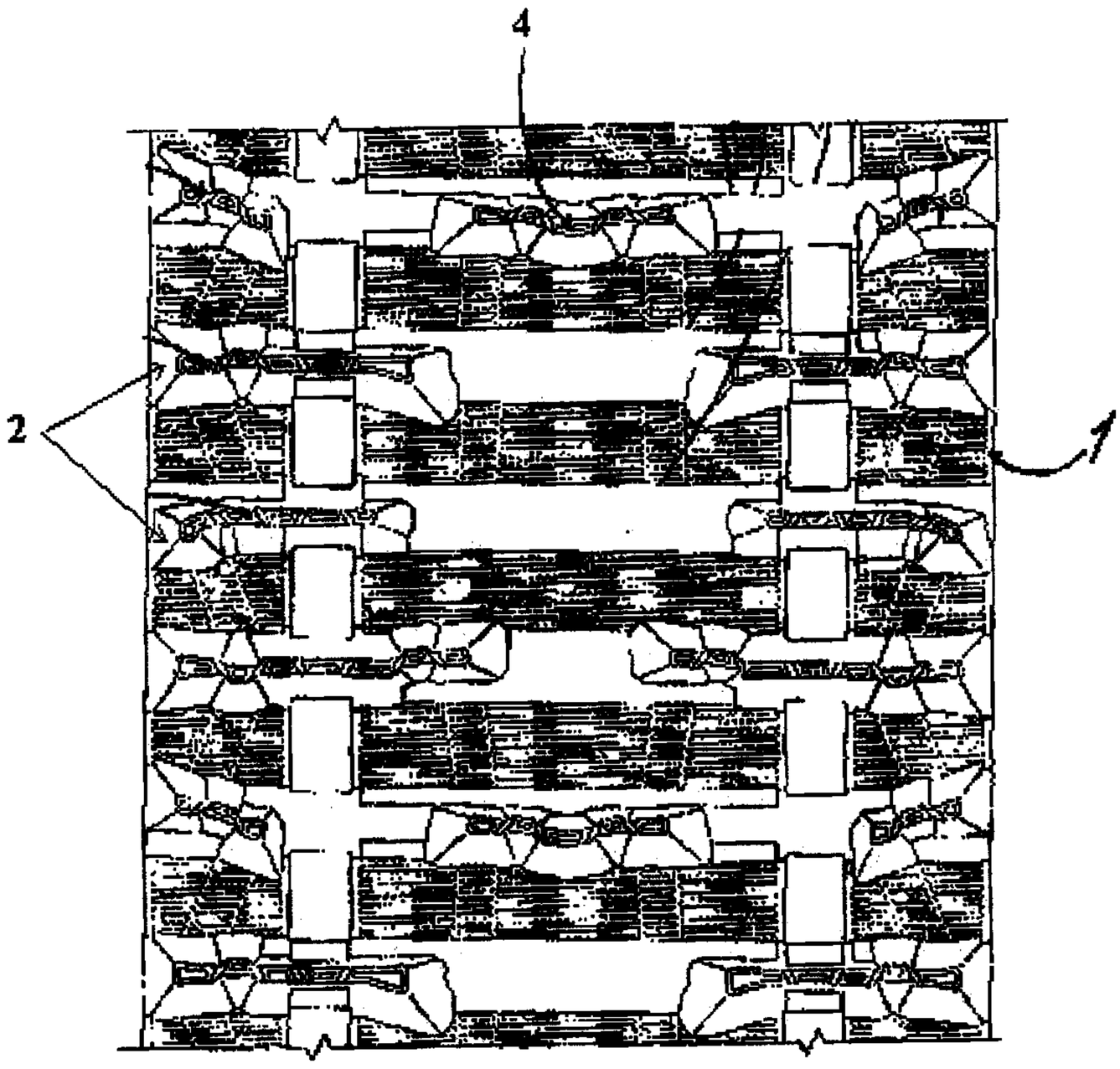
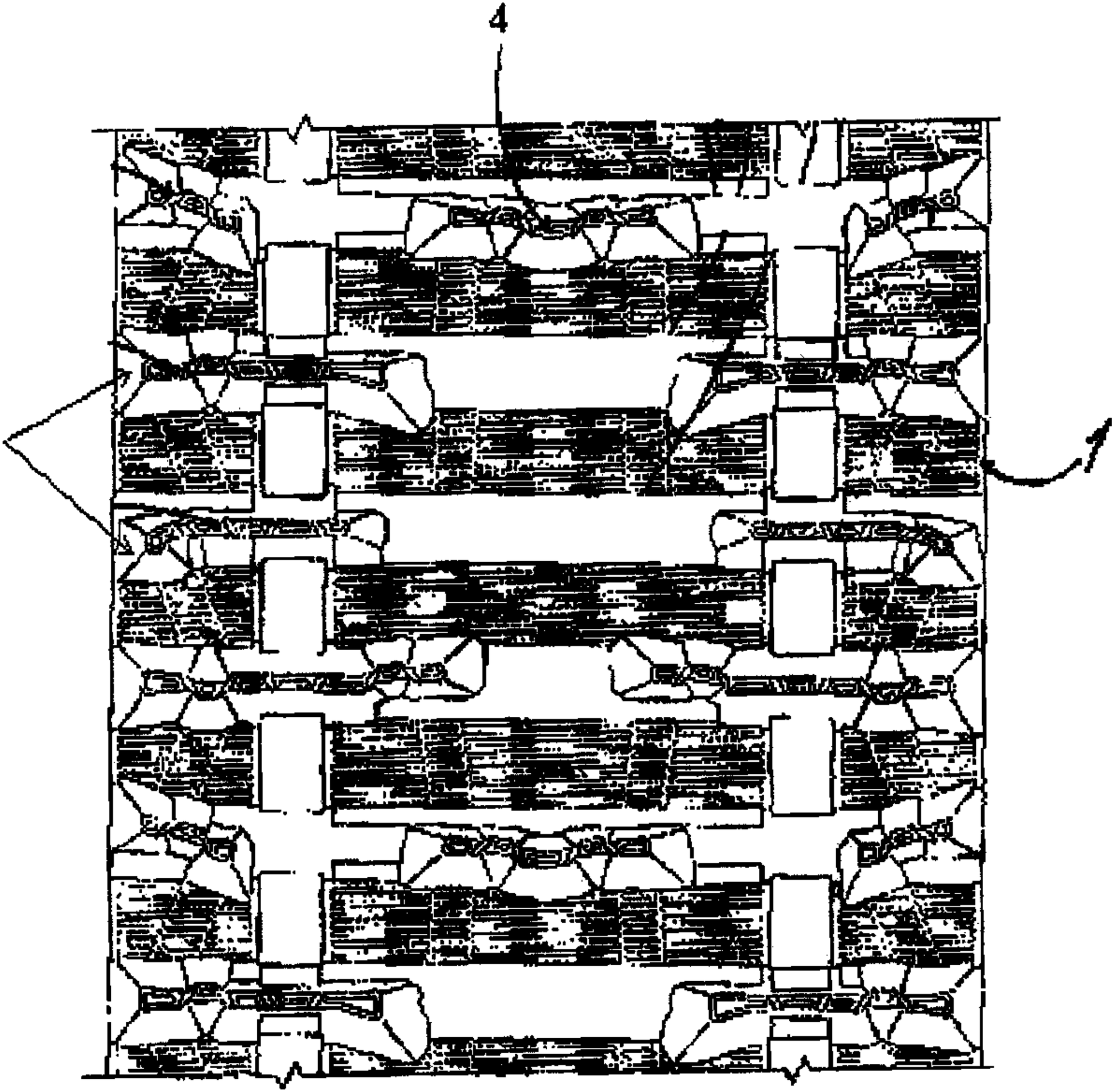


Fig. 1


4
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