

METHOD FOR RECYCLING SPORTS HELMETS

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The invention regards the recycling process of sports helmets which allows to separate and recycle all components of which the helmets are made.

Protection: Italy

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INVENTION

Protective helmets generally consist of a layer of expanded polyester and one or more parts in plastic material (PC or ABS), as well as parts in metal and fabric. The composite structure of the helmets makes it impossible to recycle them effectively.

The invention solves the economic and environmental problem linked to the non-recycling of sport helmets. The proposed system uses solvents (such as limonene) which are able to selectively dissolve the part of expanded polystyrene, leaving the outer shell unaltered.

ADVANTAGES

- Effective recycling of all components
- Low energy and low cost process
- Reduction of recycling times
- Reduction of the environmental impact

APPLICATIONS

Plants for the recycling of composite materials

CONTACTS

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