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- as to the applicant's entitlement to claim the priority of the
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(54) Title: POLYMER COMPOSITION AND PROCESS FOR COATING EXPANDED POLYSTYRENE WITH THE POLYMER
COMPOSITION

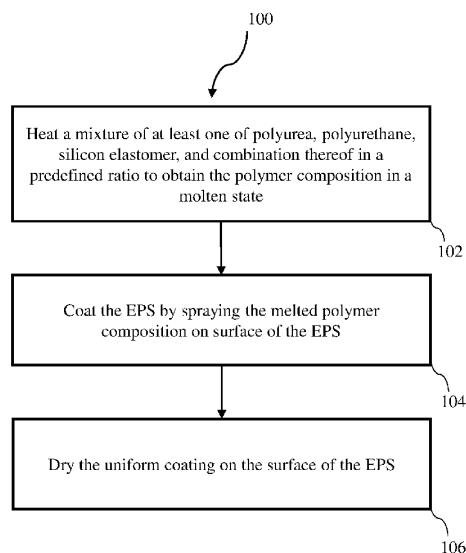


FIG.1

(57) Abstract: A polymer composition for coating expanded poly-
styrene (EPS) is provided, the polymer composition includes a mix-
ture of at least one of polyurea, polyurethane, silicon elastomer, and
combination thereof in a predefined ratio. The polymer composi-
tion imparts desired properties such as high impact and abrasion
resistance, elongation strength, and anti-static property along with
flexural strength to the EPS. The present invention also provides the
process for coating the polymer composition onto the EPS. The ma-
trix coating process provides much stronger bonding due to overlap
of coating of the polymer composition on the sides of the EPS and
reduces the wastage of the polymer composition during the coat-
ing of the EPS. The present invention also provides the EPS coat-
ed with the polymer composition. The EPS coated with the poly-
mer composition possesses the properties such as high impact re-
sistance, abrasion resistance, elongation strength, flexural strength,
and anti-static property.

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