

Title (en)
APPARATUS FOR PREPARING COATED BITUMINOUS PRODUCTS FOR ROAD SURFACES

Publication
EP 0033812 B1 19840118 (FR)

Application
EP 80400209 A 19800212

Priority
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Abstract (en)
[origin: EP0033812A1] 1. A device for the manufacture of bituminous coated products for road surfacings from liquid bituminous binders and from granular products consisting of recycled coated materials arising from worn road surfacings and of new aggregates, in which the proportion of recycled coated materials relative to the proportion of new aggregates can range from à to 100 %, consisting of a drum (1) of cylindrical shape mounted to rotate around its longitudinal axis on a platform, associated with means for driving in rotation and with means for supplying granular products to one of the ends of the drum (1), called the products entry end (2), and comprising a zone for introduction (10) for products brought by the means of supply (3), following the entry end (2), in which the drum (1) comprises helical fins (14) for the rapid introduction of the products into the drum (1), a burner (4) entering axially into the drum through the front face of the entry end (2), an isolation and drying zone (12) where the internal surface of the drum (1) is provided with uplifting devices (20-21) which make it possible to lift the granular materials up to the upper part of the drum (1) during its rotation and to form, through the downfall of these materials, a continuous screen of materials isolating the flame (5) of the burner (4) from the following zone of the drum which is a zone (13) for mixing in a hot atmosphere in which the drum comprises uplifting devices (26) for the uplifting of the products and their downfall in the entire straight section of the drum and at the entry of which issues an input device (6) for liquid bituminous binder, and finally a fixed chamber (16) for the discharge of the coated products and for the evacuation of gases (27) circulating in the drum (1), communicating with the exit end of the drum (1) this drum (1) being inclined from its entry end to its exit end to ensure the circulation of the products, characterized in that the drum (1) in addition comprises, between the introduction zone (10) and the isolation and drying zone (12) : a zone (11) for transfer and heating of the granular materials where the internal surface of the drum (1) is provided with sections of fins (17) wound in helices on the internal surface of the drum, projecting relative to this surface, and supporting by their edges which are distant from the internal surface of the drum, scree-sheets (18) arranged along the longitudinal direction over the entire length of the transfer and heating zone (11), the fins (17) functioning as guides for the granular materials circulating between the internal surfaces, and as webs for holding the screen-sheets (18) at a distance from the internal surface of the drum (1), the screen-sheets (18) overlapping along their adjacent lateral sides (19) providing an interstice between the adjacent sides (19), and in that the uplifting devices (20-21) of the isolation and drying zone (12) are arranged in several sets which are staggered angularly in the drum (1).

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EP 0032468 A2 19810722 - CREUSOT LOIRE [FR]

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