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Manufacturing Methods and Properties of Hot-Dipped One-Side Galvannealed Steel Sheets by the Stop-Off Coating Technique

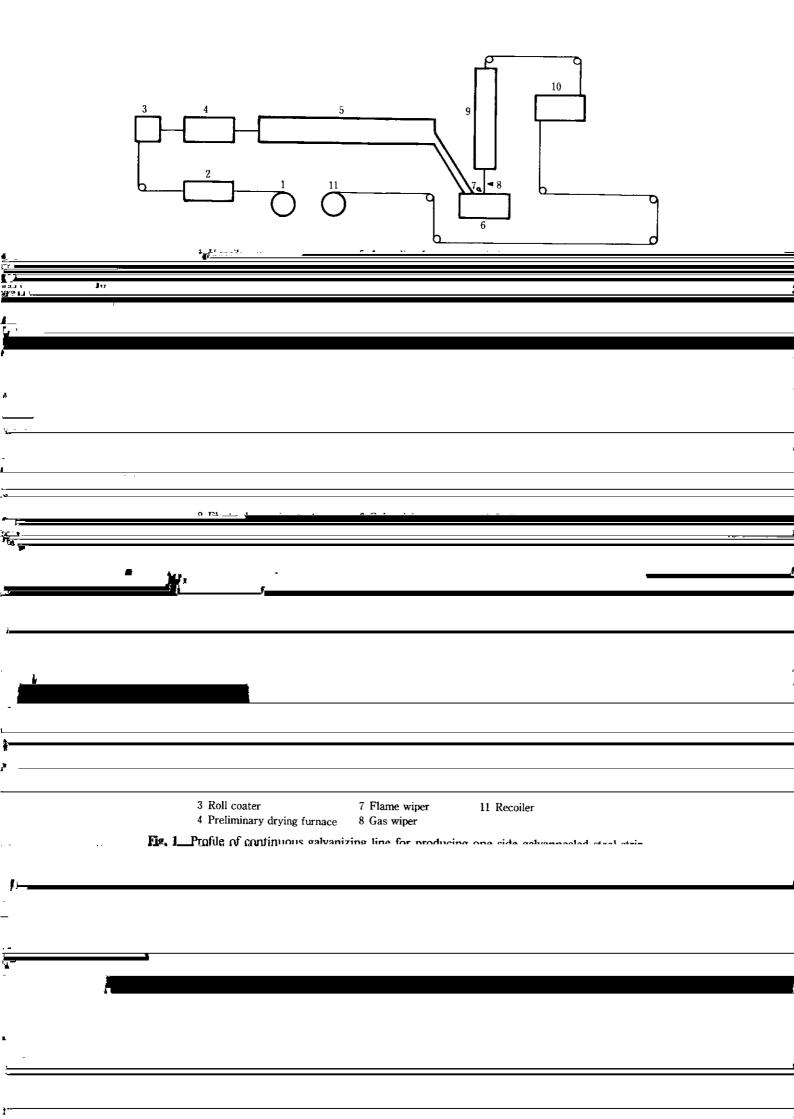
Manufacturing Methods and Properties of Hot-Dipped One-Side Galvannealed Steel Sheets by the Stop-Off Coating Technique*

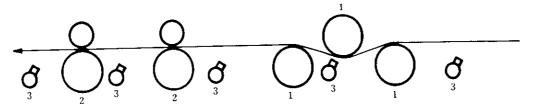
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Manufacturing methods and properties of non-grinding hot-dipped one-side galvannealed steel strip are described. It is produced on the continuous galvanizing line which is equipped with a roll coater for stop-off coating by sodium silicate, sodium borate, magnesium oxide, titanium oxide and aluminium oxide, and a roll bender to remove the coating.

(1) Above 800°C the stop-off coating forms dense glass film which keeps one side of the strip surface from molten zinc and air atmosphere and is easily exfoliated from the strip using

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- 1 Roll bender
- Brush roll
- 3 Water spray

Fig. 4 Roll bender and brush roll

- (5) A roll bending and brush wiping unit (Fig. 4) for removing the stop-off agent The explanation of the process in the order of sequen-
- 3 Characteristics of Stop-Off Coatings
 - 3.1 Functions

