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(54) Title: METHOD FOR AUTOMATICALLY MAPPING CABIN AND TRAVEL CLASS STRUCTURES OF AIRLINE DISRUPTED FLIGHTS INTO REPLACEMENT FLIGHTS

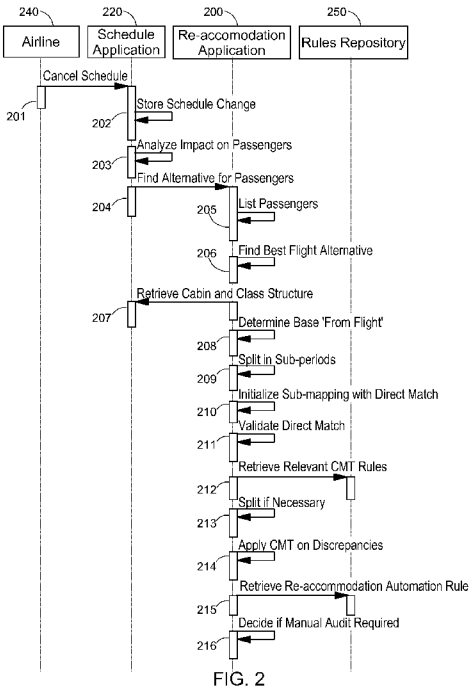


FIG. 2

(57) Abstract: A method for automatically mapping a cabin and travel class structure of an airline disrupted flight into the ones of replacement flights is described. The cabin and travel class structure of the airline disrupted flight are first retrieved. For each passenger impacted by the disruption, a base disrupted flight is determined out of the passenger itinerary. For the whole disruption period the cabin and travel class structure of the replacement flights are split in sub-periods. For each disruption sub-period, the mapping is initialized by first establishing a direct match between the cabin and travel class structures. Then, the direct match is validated against the actual cabin and travel class structure of the replacement flights which includes pinpointing all found discrepancies. All class matching tables (CMTs) that apply to the disrupted flight for the disruption period considered are retrieved from a repository of rules. The cabin and travel class structure of the replacement flights are further split in sub-periods to imbed the actual validity periods of the retrieved CMTs. Finally, rules of the retrieved CMTs are applied to resolve all found discrepancies. Thus, a fully automatic mapping is achieved between the cabin and travel class structure of the airline disrupted flight and the cabin and travel class structure of the one or more replacement flights.

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