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Abstract:

In a sludge collector mechanism having a sludge flight for scraping settled sludge off the bottom of a settling tank and skimming floating waste from the surface of the water contained in the tank, a support rail assembly for maintaining the flight on a level generally even with the surface of the water, the support rail assembly comprising a non-metallic longitudinal track on which the end of the flight is slideably supported and at least one non-metallic mounting bracket for securing the track relative to the sidewall of the settling tank. The track comprises a cross section having a substantially horizontal rail portion, a transverse stem extending downward from the underside of the rail portion, and two opposing fingers, one extending upward from the bottom of the stem and one extending downward from the underside of the rail portion. The mounting bracket comprises a mounting plate through which the mounting bracket can be bolted to the sidewall and a mounting head having two opposing grooves into which the two opposing fingers are slideably received to thereby connect the track to the mounting bracket.

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