dams and other artificial changes either in the beds or banks. The piers of a bridge or other artificial obstructions causes contraction in the water-way of a river, and if this contraction is considerably it will cause the water above the point obstructed to rise higher than the level of that below it, and thus produce a fall. With an increase of velocity due to it, in the current between the two points. This may be productive of serious results both from the overfloding of the banks, thus doing great injury to agriculture, and if the structure is