into box "a," the "b's" into box "b," and so on? Let us take the simplest case possible, and suppose that the "a's" have an ear at each upper end, by which they ride on a rail along which they are impelled by a rapid screw. Let that rail end just above the "a" box, and all the "a's" will drop into that box. But in a linotype there are 90 characters, and it is impossible to give each a pair of rails to itself. What then? Suppose you give the "b's" two pairs of ears, one pair above the other, with four rails for them to ride upon. The "b's" will fall only at a place where both pairs of rails come to an end, and at that point they will find the "b" box. Each matrix in the whole array of 90 is thus provided with ears peculiar to itself,



Two Wedges in Contact, Their Outer Sides Parallel

and with a box into which it drops when those ears find their rails interrupted.

Justification, every whit as difficult as distribution, was accomplished by Mergenthaler in his step-by-step wedges. These were forced between each pair of words until a line, effectually tightened, was cast. The spacers patented by Jacob William Schuckers, in 1885, are a preferable because a continuous device. He placed two long thin wedges together so that their boundaries were parallel. When such pairs of wedges are driven into a line as far as they will go, perfect justification is the result. In its original form, dating from the dawn of human wit, a wedge has had boundaries inclined to each other. There was long ago a heightening of the value of wedges by using them in pairs, the sharp edge of one wedge being laid against the thick