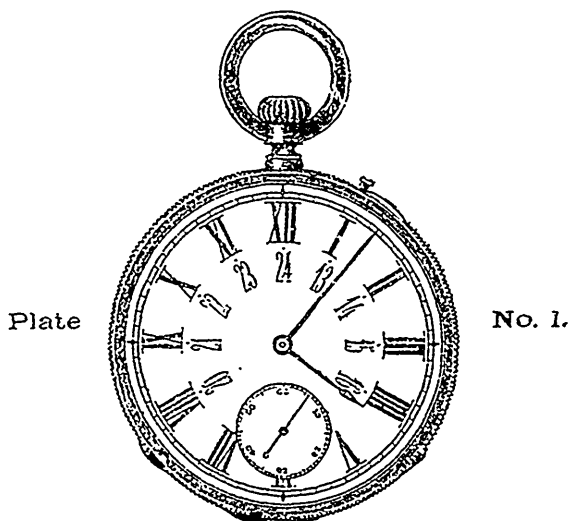


the International Institute :—Rev. H. G. Wood, of Sharon, Pennsylvania ; Professor C. Piazzi Smyth, Astronomer Royal for Scotland ; Professor John N. Stockwell, Astronomer, Cleveland ; Mr. Jacob M. Clark, C.E., New York ; Mr. William H. Searle, Pennsylvania ; the late Abbé F. Moigno, Canon of St. Denis, Paris ; Commodore Wm. B. Whiting, U. S. Navy ; Mr. Charles Latimer, C. E., Cleveland ; and others.

It will be seen from what I have submitted, that the proceedings have neither been few nor without success, and that since this Institute published the first issue of papers on Time and Time-reckoning, the subject has received much attention on both sides of the Atlantic. Societies with kindred pursuits, men of recognized merit in the scientific world, have turned to its examination and aided in its development. Some few men have acted in concert. The labours of others have been independent. Some of these names I have been able to record, but I fear that I neglect to include many of eminence because they are not known to me. It is this varied and widely diffused effort which has rendered possible the realization of the practical results which I have the gratification to record, and all

" clocks and watches now in use to the change by inscribing on the existing dials the new
 " numbers of the afternoon hours—thirteen to twenty-four (13 to 24) inclusive—as in the Plate
 " No. 1.



The only practical difficulty to be overcome is met by the simple expedient of placing on