

12 CANUM VENATICORUM

(1900, $\alpha = 12^h 51^m 1$, $\delta = +38^\circ 52'$, mag. 5.39, type Ap)

This is the fainter of the pair No. 6313 in Burnham's General Catalogue, whose distance apart of $20''$ seems to be constant. The stars have a common proper motion of $0'' 257$, and thus, if the components of the pair should differ appreciably in their radial velocities, it would suggest a binary character for at least one of them. For the brighter star Campbell quotes a velocity of -1.6 km. per sec. in *Lick Observatory Bulletin*, 211, and Hnatek in *A.N.*, 197, 185, gives five velocities, the mean of which is $+2.0$ km. per sec. Thus, a velocity in the neighbourhood of ± 0 km. per sec. may be accepted for this star. For the fainter star, here dealt with, Ludendorff gives a velocity of -0.3 km. per sec., being the mean of 12 accordant plates and agreeing well with the result for the main star. Our results, however, reveal a variable velocity, as either the first or second plate, both of which have quite sharp and well measurable lines, gives a velocity too divergent from the other measures to consider it as constant.

Plate	Date, G.M.T.	Velocity	Lines
7028	1915, May 30 613	-11.8	16
7101	July 15 616	-21.0	14
8079	1917, Feb. 27 881	-3.6	10
8086	Mar. 1 812	-8.0	12