Restricting ourselves to the frames satisfying (27) and (30), we get

$$\alpha = 1\,, \quad \beta = 0\,, \quad \gamma = 0\,, \quad \delta = 1\,, \tag{31}$$

i.e., the conditions (27) and (30) determine exactly one field of frames $\{v_i\}$. In other words, the conditions (27) and (30) reduce our original G-structure to an $\{e\}$-structure. For this $\{e\}$-structure, $a_1, a_2, b_1, \ldots, b_4, c_1, \ldots, c_4, e_1, \ldots, e_4, f_1, \ldots, f_4$ are the invariants; $d_1, \ldots, d_4$ are given by (27) and (30). Now, it is easy to see the following

Theorem. *In* $\mathbb{C}^2$, *be given a transitive congruence* $\mathscr{L}$ *of surfaces. Considering the associated* G*-structure, we may reduce it to an* $\{e\}$*-structure given by* (4) *with* $a_1, \ldots, f_4 =$ const., (27), (30) *and*

$$\begin{aligned}
(32)\quad & d_3b_1 + d_4c_1 - b_3d_1 - b_4e_1 - a_2d_1 + a_1e_2 = 0\,, \\
& d_3b_2 + d_4c_2 - b_3d_2 - b_4e_2 + b_1a_2 - a_1b_2 = 0\,, \\
& d_4c_3 - b_4e_3 - d_3e_2 - a_1b_3 = 0\,, \\
& d_3b_4 + d_4c_4 - b_3d_4 - b_4e_4 - d_4a_2 - a_1b_4 = 0\,, \\
& e_3b_1 + e_4c_1 - c_3d_1 - c_4e_1 - e_1a_2 + e_2a_1 = 0\,, \\
& e_3b_2 + e_4c_2 - c_3d_2 - c_4e_2 + c_1a_2 - a_1c_2 = 0\,, \\
& e_3b_3 + e_4c_3 - c_3d_3 - c_4e_3 - e_3a_2 - a_1c_3 = 0\,, \\
& e_3b_4 - c_3d_4 - e_4a_2 - a_1c_4 = 0\,, \\
& f_3b_1 + f_4c_1 + c_2d_1 - c_4f_1 - b_2e_1 - b_3f_1 + f_2a_1 = 0\,, \\
& f_3b_2 + f_4c_2 + c_1b_2 + c_2d_2 - c_4f_2 - b_1c_2 - b_2e_2 - b_3f_2 + f_2a_2 = 0\,, \\
& f_4c_3 + c_1b_3 + c_2d_3 - c_4f_3 - b_1c_3 - b_2e_3 = 0\,, \\
& f_3b_4 + c_1b_4 + c_2d_4 - b_1c_4 - b_2e_4 - b_3f_4 = 0\,, \\
& f_3d_1 + f_4e_1 + e_1b_1 + e_2d_1 - e_4f_1 - d_1c_1 - d_2e_1 - d_3f_1 - a_1f_1 = 0\,, \\
& f_3d_2 + f_4e_2 + e_1b_2 - e_4f_2 - d_1c_2 - d_3f_2 - f_1a_2 = 0\,, \\
& f_4e_3 + e_1b_3 + e_2d_3 - e_4f_3 - d_1c_3 - d_2e_3 = 0\,, \\
& f_3d_4 + e_1b_4 + e_2d_4 - d_1c_4 - d_2e_4 + d_3f_3 = 0\,.
\end{aligned}$$

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Author's address: Department of Geometry, MTC, Cairo (E.A.R.).